### TOWN OF ROLESVILLE

502 Southtown Circle (physical) PO Box 250 (mailing) Rolesville, North Carolina 27571 P: 919.556.3506 F: 919.556.6852 RolesvilleNC.gov



December 4, 2018

Town Hall Masterplan RFP - Addendum 2

The following addendum addresses request for copy of Designer Agreement and existing plans. Please find both are attached.

Thank you for your continued interest in the project. Your time and efforts are greatly appreciated.

Sincerely,

Glenn Sheppard, Public Works Director Town of Rolesville 502 Southtown Circle Rolesville, NC 27571 919-556-3506 Glenn.sheppard@rolesville.nc.gov

### AGREEMENT FOR PROFESSIONAL SERVICES

### FOR

This Agreement, made as of the day of, 200, by and between the Town of
Rolesville (hereinafter, the "Owner") and, a professional
[architectural] [engineering] landscape architectural] firm with a partner or principal registered in North
Carolina as a licensed [architect] [engineer] [landscape architect] and with offices in North Carolina
(hereinafter, the "Designer").
WITNESSETH:
That the Owner and Designer, for the consideration herein named, do hereby agree as follows:
<u>ARTICLE 1</u>
1.1 Scope of Work
1.1.1 This Agreement is for professional [architectural] [engineering] [landscape architectural]
services to be rendered by Designer to Owner with respect to a project known as
(hereinafter, the "Project"). The
Project is located in Wake County, North Carolina. It is described more particularly in Attachment A.
1.1.2 By its execution of this Agreement, the Designer represents and agrees that it is qualified and
fully capable to perform and provide the professional [architectural] [engineering] [landscape architectural]
services and other services required or necessary under this Agreement in a fully competent, professional and
timely manner, and that its Consultants are also fully capable and qualified to perform and provide the services
that they will provide hereunder.
1.1.3 Time is of the essence of this Agreement.

and designated in Article 4 hereof and in Attachment B to this Agreement, and such Additional Services as are

designated in Article 5 of this Agreement or as may from time-to-time be agreed upon by the Owner and

The services to be performed under this Agreement consist of Basic Services, as described

1.1.4

Designer by Amendment or Addendum to this Agreement. Compensation to the Designer for Basic Services under this Agreement shall be as set forth herein, and compensation for Additional Services shall be as set forth herein or in any Amendment or Addendum providing for them. All services performed by the Designer not identified as Additional Services in Article 5 or in a written Amendment or Agreement entered into by the Owner and the Designer and providing for additional compensation for such additional services relating to the Project shall be deemed to be Basic Services which are provided without additional compensation.

### **ARTICLE 2**

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2.1	Defin	11	10ns

- 2.1.1 Additional Services See Section 1.1.4 and Article 5.
- 2.1.2 Basic Services See Article 4 and Attachment B.
- 2.1.3 Certificate of Final Completion See the General Conditions of Town of Rolesville's Standard Construction Agreement with contractors.
- 2.1.4 Compensation for Basic Services See Section 7.1 and 7.2.
- 2.1.5 Consultants See Section 3.3.1 and Attachment E.
- 2.1.6 Town Board of Commissioners The Board of Commissioners of Town of Rolesville.
- 2.1.7 Town Manager The employee of Town of Rolesville bearing that title.
- 2.1.8 Public Works Director- See Section 8.1.3. The Public Works Director is the employee of Town of Rolesville bearing that title.
  - 2.1.9 Milestone Dates See Attachment D.
- 2.1.10 Project All phases of the Project as described in Attachments A and B including but not limited to the schematic design, design development, construction document, bidding and contract award, construction and post-construction phases.
  - 2.1.11 Reimbursable Expenses See Section 7.5.
  - 2.1.12 Total Project Cost See Section 4.2.1

### **ARTICLE 3**

### RESPONSIBILITIES OF THE DESIGNER

### 3.1 Services to be Provided

3.1.1 The Designer shall provide the Owner with all [architectural and engineering] [engineering] [landscape architectural] services required to satisfactorily complete all phases of the Project within the time limitations set forth herein and in accordance with the highest professional standards. Such services may include:

### [Select the appropriate services]

- Architectural programming
- Master planning
- Space planning
- Evaluation and analysis of the site or sites
- Architectural design
- Civil engineering
- Structural engineering
- Mechanical engineering
- Electrical engineering
- Landscape and irrigation system design
- Interior design
- Signage and graphics design
- Construction inspection
- Construction contract administration
- All other services customarily furnished by a Designer and it's Consultants with respect to projects and activities similar to the Project.

All services of the Designer shall be provided in accordance with the terms and conditions of this Agreement.

### 3.2. Standard of Care

3.2.1 The Designer and its Consultants shall exercise reasonable care and diligence in performing their services under this Agreement in accordance with generally accepted standards of [architectural and engineering] [landscape architectural] practice throughout the United States and in accordance with federal, state and local laws and regulations applicable to the performance of these services. The

Designer shall serve as a representative of the Owner in accordance with the terms and conditions of this Agreement to guard the Owner against defects and deficiencies in the Work.

- 3.2.2 The Designer shall be responsible for all errors or omissions, in the drawings, specifications, and other documents prepared by the Designer or its Consultants. It shall be the responsibility of the Designer throughout the period of performance under this Agreement to use reasonable professional care and judgment to guard the Owner against defects and deficiencies in the Work.
- 3.2.3 The Designer shall correct at no additional cost to the Owner any and all errors, omissions, discrepancies, ambiguities, mistakes or conflicts in the drawings, specifications and other documents prepared by the Designer or its Consultants.
- 3.2.4 The Designer shall assure that all drawings, specifications and other documents prepared by the Designer or its Consultants hereunder are in accordance with applicable laws, statutes, building codes and regulations and that all necessary or appropriate applications for approvals are submitted to federal, state and local governments or agencies in a timely manner so as not to delay the design or construction activities of the Project.
- 3.2.5 The Designer and its Consultants shall perform all services in a timely manner in accordance with all schedules for the Project or required under the Agreement and in accordance with the Construction Register, as provided in the General Conditions of the Owner's contracts with the Contractors for the Project.
- 3.2.6 The Designer shall reimburse the Owner, as stipulated in 3.2.6.A and 3.2.6.B for costs, damages and expenses, including attorney's fees, incurred by the Owner when such costs, damages and expenses are the result of any error, omission or delay of the Designer or its Consultants.
  - A. To the extent that the cost to the Owner for all errors, premium value of omissions or delays of the Designer is less than one-half of one percent (0.5%) of the Total Project Cost identified in [Attachment C], the Designer shall not be liable to the Owner for such costs.
  - B. If the aggregate cost to the Owner for such errors, premium value of omissions or delays of the Designer amounts to more than one-half of one percent (0.5%) of the Total Project Cost identified in [Attachment C], the Designer shall reimburse the Owner for all such costs in excess of said one-half of one percent (0.5%).

### 3.3 <u>Designer's Consultants</u>

3.3.1 The Designer's Consultants for the project, along with their key project personnel, are listed

in [Attachment E] to this Agreement. No changes in the consultants or key personnel indicated shall be permitted except with the prior written consent of the Owner.

3.3.2 All of the Designer's contracts with its Consultants shall be in writing and shall expressly provide that if this Agreement is terminated for any reason, the Owner may, at its sole option, take the assignment of the Consultants' contract with the Designer, that such assignment shall automatically take place upon notification in writing by the Owner to the Consultants and the Consultants shall continue to be bound by the contract after such assignment. A copy of each contract between the Designer and a Consultant shall be furnished to the Owner within seven (7) days of its execution.

### **ARTICLE 4**

### **BASIC SERVICES**

- 4.1 Basic Services
- 4.1.1 The Designer shall perform as Basic Services that work and services described herein and in Attachment B to this Agreement.
- 4.1.2 The Basic Services will be performed by the Designer in the phases described in [Attachment B].
- 4.1.3 The Owner shall have the right and option to require the Designer to prepare [four] [eight] separate bid packages with no additional compensation due the Designer. Such bid packages, at the Owner's option, may include:
  - A. Demolition and preliminary site work
  - B. General work, plumbing, mechanical, electrical, fire protection
  - C. Landscaping and irrigation
  - D. Signage
  - E. Furniture.

### 4.2 <u>Project Cost Estimates</u>

4.2.1 At the times designated herein, the Designer shall develop an estimate of the total cost of the Project (the "Total Project Cost"), including Designer's fees, costs of the construction, costs of equipment, furnishings, furniture and signage, permit fees and appropriate contingencies. These costs shall be prepared

and submitted to the Owner substantially in the format shown in Attachment C to this Agreement, with supporting documents listing quantities, unit price, labor rates, man-hour estimates, overhead and profit.

- 4.2.2 These Total Project Cost estimates shall be prepared by a qualified cost estimating Consultant to the Designer who is acceptable to the Owner.
- 4.2.3 Total Project Cost estimates shall be prepared at three points in the production of the Designer's work:
  - A. At completion of schematic design;
  - B. At completion of design development; and
  - C. At completion of 80% of the construction documents.
- 4.2.4 When the first of these estimates of Total Project Cost has been approved in writing by the Owner, it shall be used by the Owner as a basis for appropriating funds specifically for the Project. Once this Total Project Cost has been so approved by the Owner, the Designer shall be obligated, without additional compensation, to adjust the design of the Project to assure that it remains within the approved Total Project Cost.
- 4.2.5 Should bidding or negotiation with contractors produce prices which, when added to the other elements of the approved Total Project Cost, produce a cost that is in excess of the approved Total Project Cost, the Designer shall participate with the Owner in rebidding, renegotiation and design adjustments to the extent such are necessary to obtain prices within the approved Total Project Cost. All activity of the Designer with respect to these matters shall constitute Basic Services and shall be performed by the Designer without additional compensation.

### 4.3 Project Conferences

- 4.3.1 For the duration of the development of the Project, the Designer and its Consultants shall meet periodically with the Owner. The <u>minimum</u> regularly scheduled meetings which the Designer shall be required to attend are listed below:
  - Initial orientation meeting
  - Progress meetings during pre-design and design phases will be held every other week.
  - Pre-Bid conferences
  - Bid openings
  - Pre-construction conferences

- Construction progress meetings every other week
- Additional meetings as required to properly fulfill the requirements of this Agreement.

### 4.4 Construction Administration

4.4.1 As part of Basic Services, the Designer shall provide all of the administrative services described in the Owner's contracts with the Contractors for the Project.

### **ARTICLE 5**

### ADDITIONAL SERVICES

- 5.1 Additional Services to be provided by the Designer or its Consultants pursuant to this Agreement are:
- 5.1.1 Providing fully detailed presentation models or professional artist's renderings.
- 5.1.2 Making major revisions in drawings, specifications or other documents when such revisions are inconsistent with written approvals or instructions previously given by the Owner or are due to causes beyond the control and without the fault or negligence of the Designer.
- 5.1.3 Preparing supporting data and other services in connection with a significant Owner-initiated change order, but only if Designer can demonstrate that such services cause a direct increase in Designer's cost of rendering its Basic Services hereunder.
- 5.1.4 Preparing to serve or serving as an expert witness for the Owner in connection with arbitration or legal proceedings unless the subject matter of the proceedings includes matters arising out of or related to the Designer's or Consultant's performance of service with respect to the Project; however, preparing to serve or serving as a fact witness for the Owner in such proceedings or rendering testimony necessary to secure governmental approval of zoning or land use clearances for the Project shall not constitute an Additional Service.
  - 5.1.5 Providing professional services made necessary by the default of a Contractor.
- 5.1.6 Providing additional or extended services during the Construction Phase made necessary by (a) defective work of the contractor(s); (b) prolongation of more than sixty (60) days, provided the prolongation is not due to the fault or negligence of the Designer, its employees, consultants or agents; or (c) default under the construction contract due to delinquency or insolvency.

- 5.1.7 Providing additional services and costs necessitated by special out-of-town travel required by the Designer and approved in advance in writing by the Owner, other than visits to the Project and other than travel reasonably required to fully accomplish the Basic Services.
- 5.1.8 Attending special public hearings for the Project, other than those listed herein, which are called by the Town Board of Commissioners.

### ARTICLE 6

### **DURATION OF DESIGNER'S SERVICES**

### 6.1 <u>Scheduling of Services</u>

- 6.1.1 Attachment D to this Agreement is the Key Milestone Listing which defines the sequence and timing of the design and construction activities. The Designer and its Consultants shall schedule and perform their activities so as to meet the Milestone Dates shown. No deviation by the Designer or his Consultants from the Key Milestone Listing shall be allowed without prior written approval by the Owner.
- 6.1.2 The Designer's schedule for the performance of its activities and the activities of its Consultants shall be reduced to writing and submitted to the Owner for review and approval. The Designer shall also prepare and submit to the Owner for review and approval a schedule of all known items of information, approvals or decisions to be furnished or made by the Owner, including the dates by which the Owner shall have all information necessary from the Designer with respect to that item, approval or decision and the date by which the item of information, approval or decision should be communicated to the Designer. The Owner shall always have a reasonable time within which to provide such item of information, approval or decision and shall not have any responsibility for any delay occurring by reason of the Owner's being unable, through no fault of the Owner, to supply such item of information, approval or decision.
- 6.1.3 Should the Owner determine that the Designer is behind schedule, it may require the Designer to expedite and accelerate its efforts, including providing additional manpower and/or overtime, as necessary, to perform its services in accordance with the Key Milestone Listing at no additional cost to the Owner.
- 6.1.4 The commencement date for the Designer's Basic Services shall be the date of delivery to the Designer from the Owner of a fully executed original of this Agreement.

- 6.2 Adjustments to the Schedule
- 6.2.1 If the Designer's work on the Project is or will be delayed for more than sixty (60) days through no fault of the Designer, or if the Owner increases or decreases the scope or size of the Project by ten percent (10%) of currently estimated Total Project Cost, the Designer shall give prompt written notice to the Owner. Provided that such notice has been given, the Designer may request in writing an adjustment in the Key Milestone Listing dates, which shall be granted by the Owner to the extent reasonable.

### **ARTICLE 7**

### **DESIGNER'S COMPENSATION**

- 7.1 <u>Compensation for Basic Services</u>
- 7.1.1 Compensation for Basic Services shall include all compensation due the Designer from the Owner for all services under this Agreement except for Additional Services and Reimbursable Expenses.
- 7.2 <u>Breakdown of Compensation for Basic Services</u>

  Compensation for Basic Services consists of the following compensation for the following separate categories of services:

7.2.1	Sche	ematic Design Phase. Lump sum fee of	
7.2.2	Desi	ign Development Phase. Lump sum fee of _	
7.2.3	Con	struction Document Phase. Lump sum fee of _	
7.2.4	Bido	ling and Contract Award. Lump sum fee of _	
7.2.5	Con	struction Phase. Lump sum fee of	
7.2.6	Post	Construction Phase. Lump sum fee of	
7.2.7	Add	itional Basic Services	
	A.	Programming. Lump sum fee of	
	B.	Master Planning. Lump sum fee of	
	C:	Signage. Lump sum fee of	
	D.	Furniture. Lump sum fee of	

- 7.3 Payment for Basic Services Rendered
- 7.3.1 Payment to the Designer for Basic Services shall become due and payable monthly in

proportion to satisfactory services performed and work accomplished. Payments will be made monthly by the Owner within 30 calendar days of receipt of an invoice which is in form and substance acceptable to the Owner. In the event the Owner finds any part or parts of all or any portion of an invoice presented by the Designer not to be acceptable, it shall identify to the Designer the part or parts which are not acceptable and shall pay the part or parts of the invoice which are acceptable, if any. No deductions shall be made from the Designer's fees for basic services except in accordance with this Agreement or to reimburse the Owner for costs or expenses incurred or anticipated to be incurred for which the Designer is liable.

7.3.2 If the Owner increases or decreases the scope of the Project by ten percent (10%) or more of the currently estimated Total Project Cost, the compensation for Basic Services shall be equitably adjusted.

### 7.4 <u>Compensation for Additional Services</u>

7.4.1 With respect to Additional Services performed by the Designer in accordance with Article 5 or any Addendum or Amendment to this Agreement, the Designer shall be compensated at the hourly rates shown in Attachment F to this Agreement, unless the Owner and the Designer otherwise agree in writing.

### 7.5 Reimbursable Expenses

- 7.5.1 Reimbursable expenses are in addition to the fees for Basic Services and Additional Services, and are for the following expenditures to the extent reasonable and actually incurred by the Designer, his employees, or his consultants with respect to the Project:
- 7.5.2 Actual expenditures for postage, reproductions, photography, and long distance telephone charges directly attributable to this Project.
- 7.5.3 The actual cost of reproduction of plans and specifications excluding documents for exclusive use by the Designer.
- 7.5.4 Neither the Designer nor its Consultants shall be entitled to any mark-up on actual expenses which are incurred.

### 7.6 <u>Accounting Records</u>

7.6.1 Accounting records of the Designer's compensation for Additional Services and Reimbursable Expenses pertaining to the Project shall be maintained by the Designer and its Consultants in accordance with generally accepted accounting practices and shall be available for inspection by the Owner or the Owner's representatives at mutually convenient times for a period of three (3) years after issuance of the

Certificate of Final Completion for the Project.

### **ARTICLE 8**

### RESPONSIBILITIES OF THE OWNER

### 8.1 <u>Cooperation and Coordination</u>

- 8.1.1 The Owner shall meet with the Designer as necessary at mutually convenient times to provide information necessary to enable the Designer to develop a detailed written analysis and complete needs summary of the Project.
- 8.1.2 The Owner shall examine documents submitted by the Designer and shall make reasonable efforts to render decisions pertaining thereto no later than the dates specified in the schedule for such decisions described in Article 6.1.2.
- 8.1.3 The Public Works Director shall be the Owner's Construction Projects Administrator and shall act in the Owner's behalf and as its representative with respect to the Project and shall have the authority to render decisions and approve changes in the scope of the Project within guidelines established by the Town Manager and the Town Board of Commissioners and shall be available during working hours as often as may be reasonably required to render decisions and to furnish information.

### 8.2 Surveys and Testing

- 8.2.1 The Owner shall furnish the Designer with a certified land survey of the site, giving, as applicable, grades and lines of streets, alleys, pavements and adjoining property; rights-of-way, restrictions, easements, encroachments, zoning, deed restrictions, boundaries and contours of the site; locations, dimensions and complete data pertaining to existing buildings, other improvements and trees, and other pertinent information reasonably requested by the Designer including that concerning available service and utility lines, both public and private, above and below grade, including inverts.
- 8.2.2 The Owner shall provide the services of a geotechnical engineer or other consultant, when such services are reasonably deemed necessary by the Designer as shown on the Designer's schedule described in Article 6.1.2, to provide reports, test borings, test pits, soil bearing values, percolation tests, air and water pollution tests, ground corrosion and resistivity tests and other necessary operations for determining subsoil, air and water conditions, all together with reports and appropriate professional recommendations thereof.

8.2.3 All services, data, information, surveys and reports required of the Owner pursuant to this Article 8, shall be furnished at the Owner's expense and, absent any negligence or failure to follow professional standards on the part of Designer, the Designer shall be entitled to rely upon the accuracy and completeness of such services, data, information, surveys and reports.

### 8.3 Permits and Approvals

8.3.1 The Owner shall secure and pay for all necessary permits, licenses, approvals, easements, assessments, and charges required for the construction, use or occupancy of permanent structures or for permanent changes in existing facilities. The Designer shall provide the Owner with a schedule of all required approvals and of the dates by which application for such approvals must be made in order to avoid any risk of delay to the Project, prepare necessary application forms, present documents requiring approval by the Owner and submit documents with the Owner's approval to the appropriate approval agency.

### **ARTICLE 9**

### **INSURANCE**

### 9.1 General Requirements

- 9.1.1 The Designer shall purchase and maintain and shall cause each of its Consultants to purchase and maintain during the period of performance of this Agreement and for five years after issuance of a Certificate of Final Completion of the Project insurance for protection from claims under workers' or workmen's compensation acts; Comprehensive General Liability Insurance (including broad form contractual liability and complete operations, explosions, collapse, and underground hazards coverage) covering claims arising out of or relating to bodily injury, including bodily injury, sickness, disease or death of any of the Designer's or Consultants' employees or any other person and to real and personal property including loss of use resulting thereof; Comprehensive Automobile Liability Insurance, including hired and non-owned vehicles, if any, covering personal injury or death, and property damage; and Professional Liability Insurance, covering personal injury, bodily injury and property damage and claims arising out of or related to the performance under this Agreement by the Designer or its agents, Consultants and employees.
- 9.1.2 The minimum insurance ratings for any company insuring the Designer shall be Best's A. Should the ratings of any insurance carrier insuring the Designer fall below the minimum rating, the County

may, at its option, require the Designer to purchase insurance from a company whose rating meets the minimum standard.

### 9.2 <u>Limits of Coverage</u>

9.2.1 Minimum limits of insurance coverage shall be as follows:

INSURANCE DESCRIPTION MINIMUM REQUIRED COVERAGE

· Worker's Compensation Limits for Coverage A - Statutory State of N.C.

Coverage B - Employers Liability

\$500,000 each accident and policy limit and disease each

employee

· Commercial General Liability \$1,000,000 Each Occurrence

\$2,000,000 Aggregate

· Automobile Liability

Combined Single Limit \$500,000

· Professional Liability \$1,000,000

9.2.2 All insurance policies (with the exception of Worker's Compensation and Professional Liability) required under this Agreement shall name the Owner as an additional insured party for the insurance.

### 9.3 Proof of Coverage

9.3.1 Evidence of such insurance shall be furnished to the Owner, together with evidence that each policy provides that the Owner shall receive not less than thirty (30) days prior written notice of any cancellation, non-renewal or reduction of coverage of any of the policies. Upon notice of such cancellation, non-renewal or reduction, the Designer shall procure substitute insurance so as to assure the Owner that the minimum limits of coverage are maintained continuously throughout the periods specified herein.

### 9.4 <u>Indemnity</u>

9.4.1 The Designer agrees to indemnify and hold harmless the Owner from all loss, liability, claims or expense, including attorney's fees, arising out of or related to the Project and arising from bodily injury including death or property damage to any person or persons caused in whole or in part by the

negligence or misconduct of the Designer except to the extent same are caused by the negligence or willful misconduct of the Owner. It is the intent of this provision to require the Designer to indemnify the Owner to the fullest extent permitted under North Carolina law.

### 9.5 Owner's Insurance Option

- 9.5.1 At any time during the performance of this Agreement, the Owner may, at its sole option, provide for itself, for the Designer and for its Consultants any or all of the insurance coverage required under the Article.
- 9.5.2 If the Owner elects to provide such coverage it shall notify the Designer in writing and provide to the Designer such certificate or certificates of coverage as may be applicable.
- 9.5.3 If the Owner elects to provide such cover it shall be entitled to pro rata reduction in the fees for Basic Services equal to the cost of providing such coverage to the Designer and its Consultants.

### ARTICLE 10

### AMENDMENTS TO THE AGREEMENT

### 10.1 Changes in the Designer's Basic Services

10.1.1 Changes in the Basic Services and entitlement to additional compensation or a change in duration of this Agreement shall be made by a written Amendment to this Agreement executed by the Owner and the Designer. The Designer shall proceed to perform the Services required by the Amendment only after receiving a fully executed Amendment from the Owner or a written notice from the Owner directing the Designer to proceed, whichever is earlier.

### 10.2 Owner Changes

10.2.1 The Owner may, without invalidating this Agreement, make written changes in the Designer's Basic Services or Additional Services of this Agreement by preparing and executing an Amendment to the Agreement. Within three (3) days of receipt of such an Amendment, the Designer shall notify the Owner in writing of any change contained therein that the Designer believes significantly increases or decreases the Designer's services with respect to the Project and request an adjustment in compensation with respect thereto. If the Amendment significantly increases or decreases the Designer's services, the

Designer's compensation may be equitably adjusted.

### **ARTICLE 11**

### TERMINATION AND SUSPENSION

### 11.1 Termination for Convenience of the Owner

11.1.2 This Agreement may be terminated without cause by the Owner and for its convenience upon seven (7) days written notice to the Designer.

### 11.2 Other Termination

11.2.1 After seven (7) days written notice to the other party of its material breach of the Agreement, this Agreement may be terminated by the noticing party, provided that the other party has not taken all reasonable actions to remedy the breach.

### 11.3 <u>Compensation After Termination</u>

- 11.3.1 In the event of termination for the convenience of the Owner, the Designer shall be paid that portion of its fees and expenses that it has earned to the date of termination, plus five percent (5%) of its compensation for Basic Services earned to date or of its unearned compensation for Basic Services, whichever is less, less any costs or expenses incurred or anticipated to be unearned by the Owner due to errors or omissions of the Designer.
- 11.3.2 In the event of termination by reason of a material breach of the Agreement by the Owner, the Designer shall be entitled to the same compensation as it would have received had the Owner terminated the Agreement for convenience, and the Designer expressly agrees that said compensation is fair and appropriate as liquidated damages for any and all costs and damages it might incur as a result of such termination.
- 11.3.3 In the event of termination by reason of a material breach of the Agreement by the Designer, the Designer shall be paid that portion of its fees and expenses that it has earned to the date of termination, less any costs or expenses incurred or anticipated to be incurred by the Owner due to errors or omissions of the Designer or by reason of the Designer's breach of this Agreement.
  - 11.3.4 Should this Agreement be terminated, the Designer as provided under this Article 11, the

Owner shall be granted, at no additional cost, ownership of all documents, drawings, and electronic data bases relating to the Project, including the ownership and use of all drawings, specifications, documents and materials relating to the Project prepared by or in the possession of the Designer. The Designer shall turn over to the Owner within seven (7) days and in good unaltered condition reproducibles of all original drawings, specifications, documents, electronic data bases and materials. In the event of such termination, and should the Owner use such drawings for completion of the Project, the Owner shall indemnify and hold the Designer harmless from and against any cost, expense, damage or claim arising out of the loss of life, personal injury or damage to tangible property occasioned wholly or in part by any act or omission by the Owner, its Contractor(s), agents or employees in connection with Owner's use of such drawings, plans, specifications, renderings, models and other work provided as part of Basic Services and Additional Services. The Designer specifically agrees to incorporate the provisions of this paragraph in all contracts for the services of Designer's Consultants. The Owner agrees that the Designer may retain one set of drawings for its records.

11.3.5 Should this Agreement be terminated, the Owner shall, nevertheless, have the right to require the Designer and/or its Consultants to perform such additional effort as may be necessary to providing professionally certified and sealed drawings and to delivering to the Owner such certified and sealed drawings with respect to any phase or item of the project, for which effort the Designer shall be compensated in accordance with this Agreement.

### 11.4 <u>Suspension</u>

- 11.4.1 The Owner may order the Designer in writing to suspend, delay or interrupt all or any part of its Services on the Project for the convenience of Owner.
- 11.4.2 In the event the Designer believes that any suspension, delay or interruption of any or all of the Work on the Project, may require an extension of the duration of Basic Services or an increase in the level of staffing by Designer, it shall so notify the Owner and propose an amendment of the Key Milestone Listing for consideration of the Owner. Such amendment or extension shall be effective only upon the written approval of the Owner, which will not be withheld unreasonably. In the event the duration of Basic Services is extended or shortened or the level of staffing by the Designer is increased or decreased, the Designer's compensation for Basic Services may be equitably adjusted.
- 11.4.3 A suspension, delay or interruption of the Project shall not terminate this Agreement; provided, however, that if such suspension, delay or interruption causes a suspension of the Designer's

services for a period exceeding ninety (90) days, the Designer's compensation for Basic Services may be equitably adjusted.

### 11.5 Waiver

11.5.1 The payment of any sums by the Owner under this Agreement or the failure of the Owner to require compliance by the Designer with any provisions of this Agreement or the waiver by the Owner of any breach of this Agreement shall not constitute a waiver of any claim for damages by the Owner for any breach of this Agreement or a waiver of any other required compliance with this Agreement by the Designer.

### **ARTICLE 12**

### ADDITIONAL PROVISIONS

### 12.1 <u>Confidentiality</u>

12.1.1 The Designer and its Consultants shall use their best efforts not to disclose or permit the disclosure of any confidential information relating to the Project, except to its agents, employees and other consultants who need such confidential information in order to properly perform their duties relative to this Agreement.

### 12.2 <u>Limitation and Assignment</u>

12.2.1 The Owner and the Designer each bind themselves, their successors, assigns and legal representatives to the terms of this Agreement. Neither the Owner nor the Designer shall assign or transfer its interest in this Agreement without the written consent of the other.

### 12.3 Governing Law

12.3.1 This Agreement and the duties, responsibilities, obligations and rights of respective parties hereunder shall be governed by the laws of the State of North Carolina.

### 12.4 <u>Dispute Resolution</u>

12.4.1 Any and all suits or actions to enforce, interpret or seek damages with respect to any provision of, or the performance or non-performance of, this Agreement shall be brought in the General Court

of Justice of North Carolina sitting in Wake County, North Carolina, and it is agreed by the parties that no other court shall have jurisdiction or venue with respect to such suits or actions.

### 12.5 Extent of Agreement

12.5.1 This Agreement represents the entire and integrated agreement between the Owner and the Designer and supersedes all prior negotiations, representations or agreements, either written or oral. This Agreement may be amended only by written instrument signed by both the Owner and the Designer.

### 12.6 Severability

12.6.1 If any provision of this Agreement is held as a matter of law to be unenforceable, the remainder of this Agreement shall be enforceable without such provision.

### 12.7 <u>Ownership of Documents</u>

12.7.1 All designs, drawings, specifications, design calculations, notes and other works developed in the performance of this contract shall become the property of the Owner and may be used on any other project without additional compensation to the Designer. The use of the documents by the Owner or by any person or entity for any purpose other than the Project as set forth in this Agreement shall be at the full risk of the Owner or such person or entity.

### 12.8 List of Attachments

12.8.1 The following Attachments are incorporated herein and made a part of this Agreement by reference:

Attachment A - Description of the Project

Attachment B - Description of Basic Services

Attachment C - Format of Total Project Cost Estimates

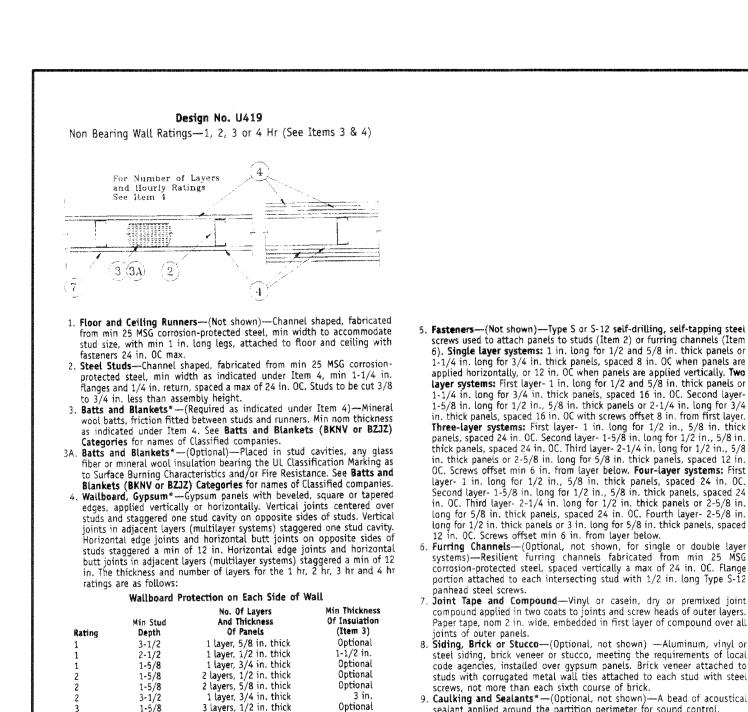
Attachment D - Key Milestone Listing

Attachment E - Consultants and Key Personnel

Attachment F - Hourly Rates Schedule

IN WITNESS WHEREOF, the parties, by and through their authorized agents, have hereunder set their hands and seal, all as of the day and year first above written.

ATTEST:	DESIGNER	
By:	By:	
Title:	Title:	
SEAL		
ATTEST:	TOWN OF ROLESVILLE	
By:Clerk to the Board	By: Frank Eagles, Mayor Kelly Arnold, Town Manager	
This instrument has been pre-a Fiscal Control Act.	udited in the manner required by the Local Government Bu	udget and
Amy Stevens Finance Director		
agmt.doc		



OC. Screws offset min 6 in, from layer below.

United States Gypsum Co.—Type AS

□ No ᡚ Yes □ No ᡚ Yes

EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXIT

NUMBER OF EXITS TRAVEL DISTANCE

Fire Alarm: 1 No 1 Yes Smoke Detection Systems: 1 No 1 Yes

"Single exits (Table 1018.2)

\*Bearing the UL Classification Marking

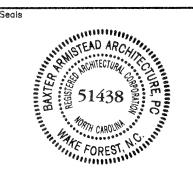
### ROLESVILLE COMMONS BUILDING #6 Rolesville, North Carolina

Permit Number



3206 Heritage Trade Dr., Suite 114 Wake Forest, North Carolina 27587 Phone: (919) 554-1505 Fax: (919) 554-1110

BAXTER ARMISTEAD All rights reserved. All drawings and copies thereof are instrume BAXTER ARMISTEAD Architecture, PC. They or discretion. Approval from a licensed building esponsibility of the consumer if required. Nomin ensions may be used. Do not scale drawing





### B1 RATED ASSEMBLIES SCALE: NOT TO SCALE

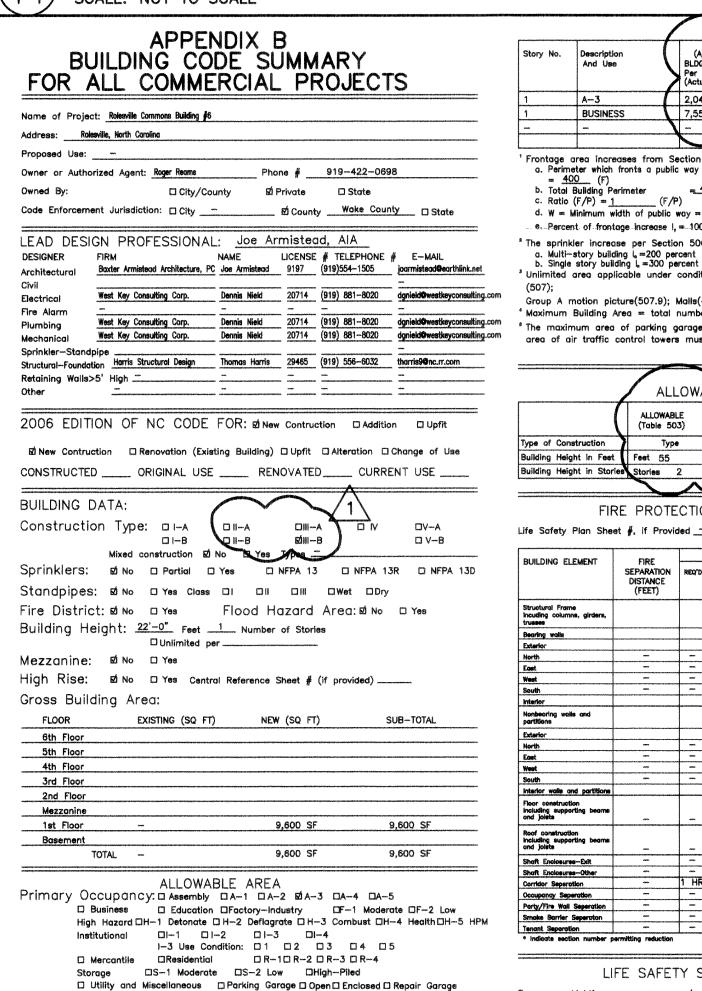
thick ULTRACODE or Type IP-X3

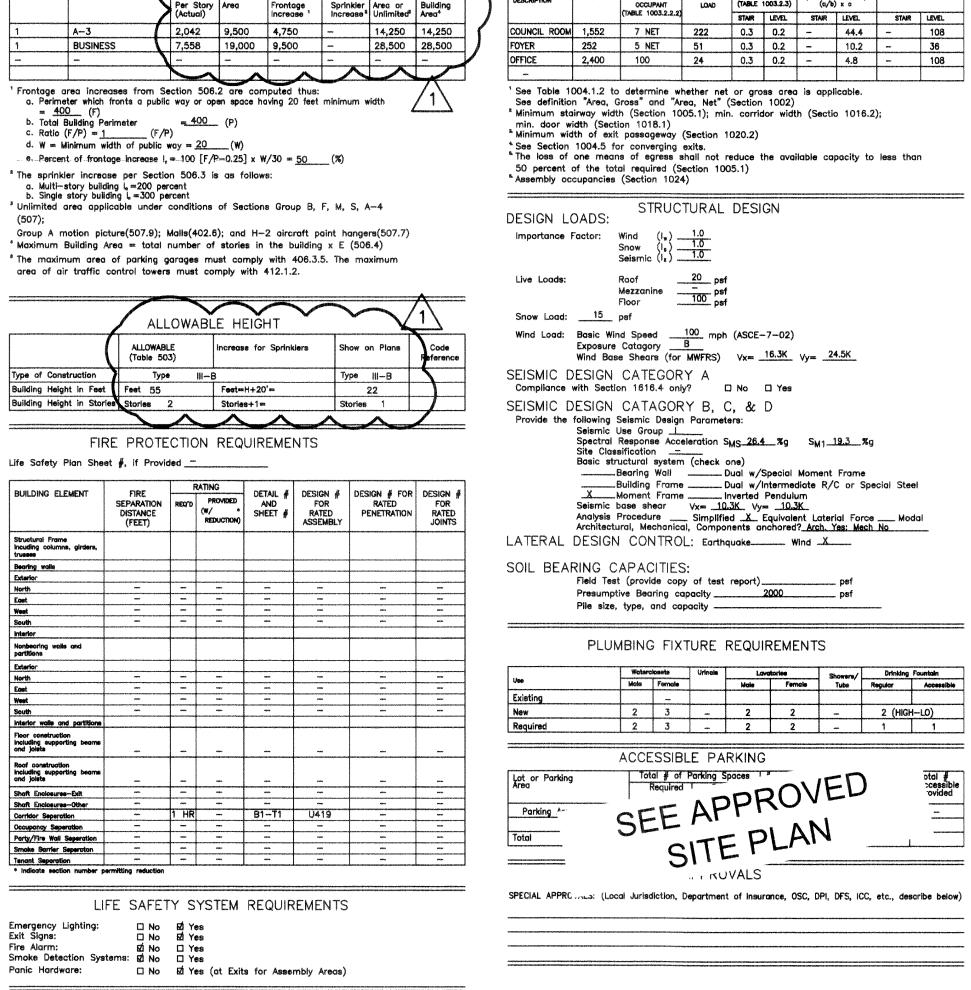
2 lavers, 3/4 in, thick

4 layers, 5/8 in. thick 4 lavers, 1/2 in, thick 2 layers, 3/4 in. thick Canadian Gypsum Co.—1/2 in. thick Type C, WRC or IP-X2; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC or IP-X2; 3/4 in.

United States Gypsum Co.—1/2 in. thick Type C, WRC or IP-X2; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC or IP-X2; 3/4

Yeso Panamericano SA de CV---1/2 in. thick Type C, WRC or IP-X2; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC or IP-X2; 3/4 in. thick ULTRACODE or Type IP-X3.





<b>2001 IECC</b> COM <i>check-EZ</i> Software Version 2.4 Relea Data filename: Z/2008 - CURRENT PROJECT		e Commons Bldg	5\0809 Energy A	nalysis.cck	
Section 1: Project Information					
Project Name:		Rolesville Com			
Designer/Contractor:			ad Architecture, l	PC .	
Document Author:		Joe Armistead,	AlA		
Section 2: General Information					
Building Location (for weather data):	Rolesville, North Ca	arolina			
Climate Zone.	7b				
Heating Degree Days (base 65 degrees F): Cooling Degree Days (base 65 degrees F)	4093 1198				
Building Type Office	Floor Area 9600				
Project Description (check one):  X New Construction Addition  Section 3: Requirements Checklist  Bldg Dept Use Air Leakage, Component   1   1 All joints and penetrations are   1   2 Windows, doors, and skylight   1   3 Component R-values & U-factories   1   3 Component R-values & U-factories   1   3   1   1   1   1   1   1   1   1	nent Certification, an e caulked, gasketed, w s certified as meeting l tors labeled as certified	d Vapor Retarde eather-stripped, or leakage requiremen	r Requirements		
X New Construction Addition  Section 3: Requirements Checklist  Bldg Dept Use Air Leakage, Comport Indicated All Joints and penetrations are Indicated All Joints and Sylight	nent Certification, an e caulked, gasketed, w s certified as meeting l tors labeled as certified	d Vapor Retarde eather-stripped, or leakage requiremen	r Requirements		
X New Construction Addition  Section 3: Requirements Checklist  Bldg Dept Use Air Leakage, Compoi        1	nent Certification, an e caulked, gasketed, w s certified as meeting l tors labeled as certified	d Vapor Retarde eather-stripped, or leakage requirement.	r Requirements otherwise sealed ts.	Рго	
X New Construction Addition  Section 3: Requirements Checklist  Bldg Dept Use Air Leakage, Component [ ] [ ] 1. All joints and penetrations are [ ] 2. Windows, doors, and skylight [ ] 3. Component R-values & U-fac Note: Vapor retarder not required in the	nent Certification, and e caulked, gasketed, w s certified as meeting I tors labeled as certified is location	d Vapor Retarde eather-stripped, or leakage requirement.	r Requirements otherwise sealed ts.		posed Budg <u>U-Factor</u>
X New Construction Addition  Section 3: Requirements Checklist  Bldg Dept Use Air Leakage, Compoi        1	nent Certification, and caulked, gasketed, we certified as meeting tors labeled as certified is location  Gro	d Vapor Retarde eather-stripped, or leakage requirement.	r Requirements otherwise sealed ts  vity Cont. R-Value. 0.0	Pro <u>U-Factor</u> 0 101	U-Factor 0.066
X New Construction Addition  Section 3: Requirements Checklist  Bldg Dept. Use Air Leakage, Comport   1   1. All joints and penetrations are   1   2. Windows, doors, and skylight   1   3. Component R-values & U-fac Note: Vapor retarder not required in the Climate-Specific Requirements  Component Name/Description  Roof I: Metal Roof without Thermal Blocke Exterior Wall 1. Metal Frame, 16° o c	nent Certification, and caulked, gasketed, we see third as meeting I tors labeled as certified is location  Gro  Ars  900  486	d Vapor Retarde eather-stripped, or leakage requirement.	r Requirements otherwise sealed ts  vivity Cont. R-Value. 0.0 0.0	Pro <u>U-Factor</u> 0 101 0 132	<u>U-Factor</u> 0.066 0.115
X New Construction Addition  Section 3: Requirements Checklist  Bldg. Dept. Use Air Leakage, Comport of [1] 1. All joints and penetrations are with a light of the light of th	nent Certification, and caulked, gasketed, we seemfied as meeting I tors labeled as certified is location  Gro  Are  485 al Blocks  486 487	d Vapor Retarde eather-stripped, or leakage requirement.	r Requirements otherwise sealed ts  vity Cont. R-Value. 0.0	Pro <u>U-Factor</u> 0 101	U-Factor 0.066
X New Construction Addition  Section 3: Requirements Checklist  Bldg Dept. Use Air Leakage, Comport   1   1. All joints and penetrations are   1   2. Windows, doors, and skylight   1   3. Component R-values & U-fac Note: Vapor retarder not required in the Climate-Specific Requirements  Component Name/Description  Roof I: Metal Roof without Thermal Blocke Exterior Wall 1. Metal Frame, 16° o c	nent Certification, and caulked, gasketed, we seemfied as meeting I tors labeled as certified is location  Gro  Are  485 al Blocks  486 487	d Vapor Retarde eather-stripped, or cleakage requirement.  Data R-Value  00 19.0  33 13.0  13.0	r Requirements otherwise sealed ts  vivity Cont. R-Value. 0.0 0.0	Pro <u>U-Factor</u> 0 101 0 132	<u>U-Factor</u> 0.066 0.115
Section 3: Requirements Checklist  Bldg Dept. Use Air Leakage, Comport of [1] 1. All joints and penetrations are [1] 2. Windows, doors, and skylight of [1] 3. Component R-values & U-fac Note: Vapor retarder not required in the Climate-Specific Requirements  Component Name/Description  Roof 1: Metal Roof without Thermal Blocks Exterior Wall 1: Metal Frame, 16° oc Exterior Wall 2: Metal Wall without Therm Exterior Wall 3: CMU <=8" with Empty Ce Furring: Metal Wall without I henty Ce Furring: Metal Window 1: Metal Frame, Double Pane, Cle	nent Certification, and caulked, gasketed, was teerified as meeting I tors labeled as certified is location  Growth Ars  Growt	d Vapor Retarde eather-stripped, or leakage requirement.	r Requirements states sealed ts  ivity Cont.  R-Value.  0.0 0.0 0.0	Pro U-Factor 0 101 0 132 0 123 0 127 0 690	U-Factor 0.066 0.115 0.115 0.115 0.671
X New Construction Addition  Section 3: Requirements Checklist  Bldg Dept Use Air Leakage, Compoid   1   1   All joints and penetrations are   1   2   Windows, doors, and skylight   1   3   Component R-values & U-fac Note: Vapor retarder not required in the Climate-Specific Requirements  Component Name/Description  Roof 1: Metal Roof without Thermal Blocks Externor Wall 1   Metal Frame, 16° o c Externor Wall 2: Metal Wall without Therm Extenor Wall 3: CMU <=8" with Empty Ce Furring: Metal Window 1: Metal Frame, Double Pane, Cle Door 1: Solid	nent Certification, and caulked, gasketed, we certified as meeting I tors labeled as certified is location  Grants  Grants  Grants  Grants  180  180  180  180  180  180  180  18	d Vapor Retarde eather-stripped, or cleakage requirement.  bass Carrel R-Value 00 19.0 33 13.0 01 13.0 00 13.0	r Requirements stherwise sealed ts	Pro <u>U-Factor</u> 0 101 0 132 0 123 0 127 0 690 0 700	U-Factor 0.066 0.115 0.115 0.115 0.671 0.178
Section 3: Requirements Checklist  Bldg Dept. Use Air Leakage, Comport of [1] 1. All joints and penetrations are [1] 2. Windows, doors, and skylight of [1] 3. Component R-values & U-fac Note: Vapor retarder not required in the Climate-Specific Requirements  Component Name/Description  Roof 1: Metal Roof without Thermal Blocks Exterior Wall 1: Metal Frame, 16° oc Exterior Wall 2: Metal Wall without Therm Exterior Wall 3: CMU <=8" with Empty Ce Furring: Metal Wall without I henty Ce Furring: Metal Window 1: Metal Frame, Double Pane, Cle	nent Certification, and caulked, gasketed, was teerified as meeting I tors labeled as certified is location  Growth Ars  Growt	d Vapor Retarde eather-stripped, or cleakage requirement.  bass Carrel R-Value 00 19.0 33 13.0 01 13.0 00 13.0	r Requirements otherwise sealed ts.  vity Cont  R-Value  0.0 0.0 0.0	Pro U-Factor 0 101 0 132 0 123 0 127 0 690	U-Factor 0.066 0.115 0.115 0.115 0.671
X New Construction Addition  Section 3: Requirements Checklist  Bldg Dept Use Air Leakage, Compoid   1   1   All joints and penetrations are   1   2   Windows, doors, and skylight   1   3   Component R-values & U-fac Note: Vapor retarder not required in the Climate-Specific Requirements  Component Name/Description  Roof 1: Metal Roof without Thermal Blocks Externor Wall 1   Metal Frame, 16° o c Externor Wall 2: Metal Wall without Therm Extenor Wall 3: CMU <=8" with Empty Ce Furring: Metal Window 1: Metal Frame, Double Pane, Cle Door 1: Solid	nent Certification, an caulked, gasketed, ws terrified as meeting I tors labeled as certified is location  Gro  Ars  900  488 al Blocks 480 lis 180 ar, SHGC 0.68 993 63 400	d Vapor Retarde eather-stripped, or leakage requirement.	r Requirements otherwise sealed ts  vity Cont  R-Value  0.0 0.0 0.0 0.0	Pro <u>U-Factor</u> 0 101 0 132 0 123 0 127 0 690 0 700	U-Factor  0.066 0.115 0.115 0.115 0.671 0.178
Section 3: Requirements Checklist  Bldg Dept. Use Air Leakage, Components of the component	nent Certification, and caulked, gasketed, we see third as meeting I tors labeled as certified is location  Gro  Ars  486 al Blocks 486 lis 186 ar, SHGC 0.68 993 400  dine calculations ONLY	d Vapor Retarde eather-stripped, or leakage requirement.	r Requirements otherwise sealed ts  vity Cont  R-Value  0.0 0.0 0.0 0.0	Pro <u>U-Factor</u> 0 101 0 132 0 123 0 127 0 690 0 700	U-Factor  0.066 0.115 0.115 0.115 0.671 0.178
Section 3: Requirements Checklist  Bldg Dept. Use Air Leakage, Comporting and penetrations are all places. Windows, doors, and skylight [1] 3. Component R-values & U-fac Note: Vapor retarder not required in the Climate-Specific Requirements  Component Name/Description  Roof I: Metal Roof without Thermal Blocks Exterior Wall I: Metal Frame, 16° o c Exterior Wall I: Metal Wall without Therm Exterior Wall 3: CMU <=8" with Empty Ce Furring: Metal Window I: Metal Frame, Double Pane, Cle Door I: Solid Floor I. Unheated Slab-On-Grade	nent Certification, and caulked, gasketed, we see third as meeting I tors labeled as certified is location  Gro  Ars  486 al Blocks 486 lis 186 ar, SHGC 0.68 993 400  dine calculations ONLY	d Vapor Retarde eather-stripped, or leakage requirement.	r Requirements otherwise sealed ts  vity Cont  R-Value  0.0 0.0 0.0 0.0	Pro <u>U-Factor</u> 0 101 0 132 0 123 0 127 0 690 0 700	U-Factor 0.066 0.115 0.115 0.115 0.671 0.178

### **DESIGN TEAM**

### ARCHITECT:

Baxter Armistead Architecture, PC

3206 Heritage Trade Drive, Suite 114 Wake Forest, North Carolina 27587 Ph.: (919) 554-1505; Fax (919) 554-1110

STRUCTURAL ENGINEER: Harris Structural Design, PA

Ph.: (919) 556-6032; Fax: (919) 556-6032

3206 Heritage Trade Drive, Suite 116 Wake Forest, North Carolina 27587

MECHANICAL ENGINEER:

West Key Consulting Corporation

4008 Barrett Drive, Suite 204 Raleigh, North Carolina 27609

Ph.: (919) 881-8020; Fax: (919) 881-8469

### **ELECTRICAL ENGINEER:**

West Key Consulting Corporation 4008 Barrett Drive, Suite 204

Raleigh, North Carolina 27609 Ph.: (919) 881-8020; Fax: (919) 881-8469

### PLUMBING ENGINEER:

West Key Consulting Corporation

4008 Barrett Drive, Suite 204

Raleigh, North Carolina 27609 Ph.: (919) 881-8020; Fax: (919) 881-8469

S	H	E	E	T	11	D	E	X	1
					_	-			*

T-1 Cover Sheet Architectural

> Floor Plan, Roof Plan, Schedules & Notes Fit-Up Floor Plamn, Schedules & Notes

Exterior Elevations

Reflected Ceiling Plan, Enlarged Toilet Plans, & Details

Wall Sections

Plumbing, Mechanical & Electrical: SW&V Floor Plan & Rise Water Floor Plan & Riser Plumbing Details

**HVAC Floor Plan HVAC Details** Lighting Floor Plan

Power Floor Plan Electrical Details

DATE:

SET NO.:

File Name: ROLESVILLE

COMMONS BUILDING 6 Rolesville, North Carolina

COVER SHEET

0809 AS NOTED T-1

Actual Area of Occupancy A

Allowable Area of Occupancy B

Allowable Area of Occupancy B ± 1.00

Special Uses: 11402 11403 11404 11405 11408 11407 11408 11409 11410 11411

The required type of construction for the building shall be

determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

each use divided by the allowable area for each use shall not exceed 1.

Special Provisions: 0508.20508.30508.40508.50508.60508.70508.8

Mixed Occupancy: DNo DYes Separation:\_\_\_\_Hr. Exception:\_\_\_\_

□ Separated Use (302.3.2) - See below for area calculations.

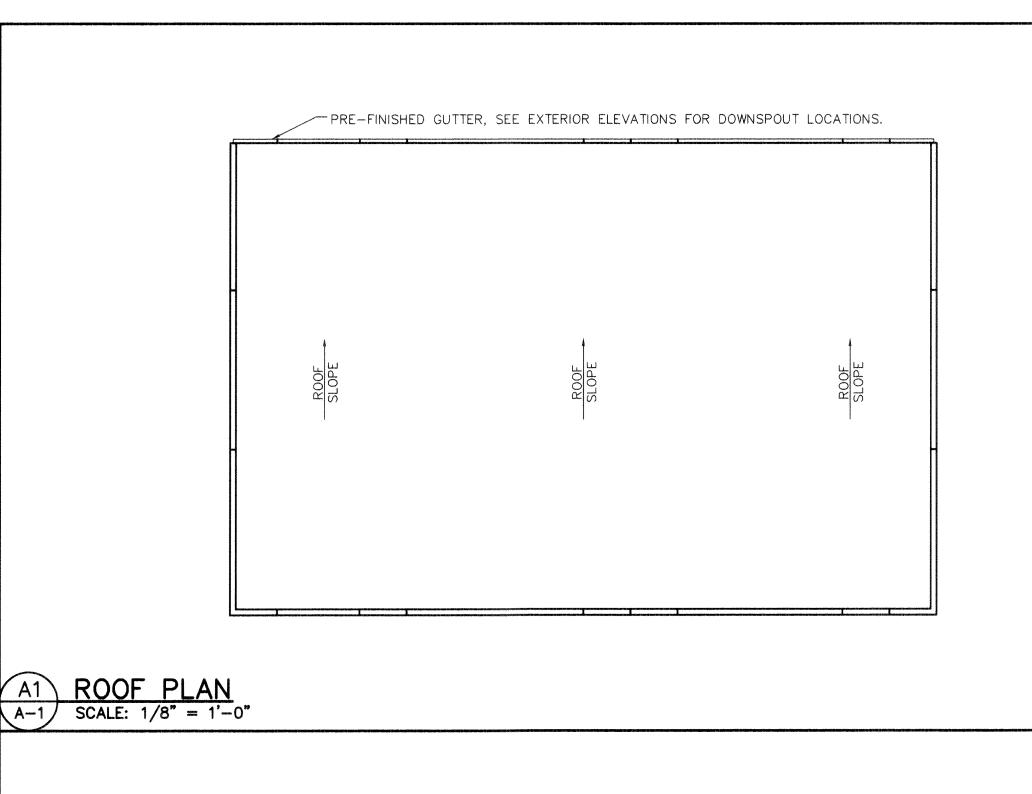
□ Incidental Use Separation (302.1.1)

12 Non-Separated Use (302.3.1)

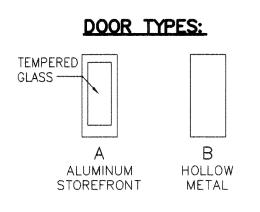
 0 412
 0 413
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 0 420
 0 421

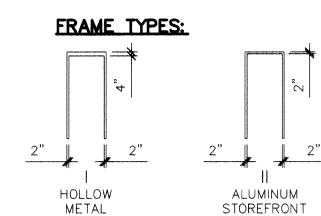
This separation is not exempt as a Non-Separated Use (see exceptions).

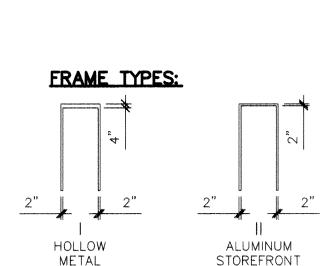
Secondary Occupancy: BUSINESS

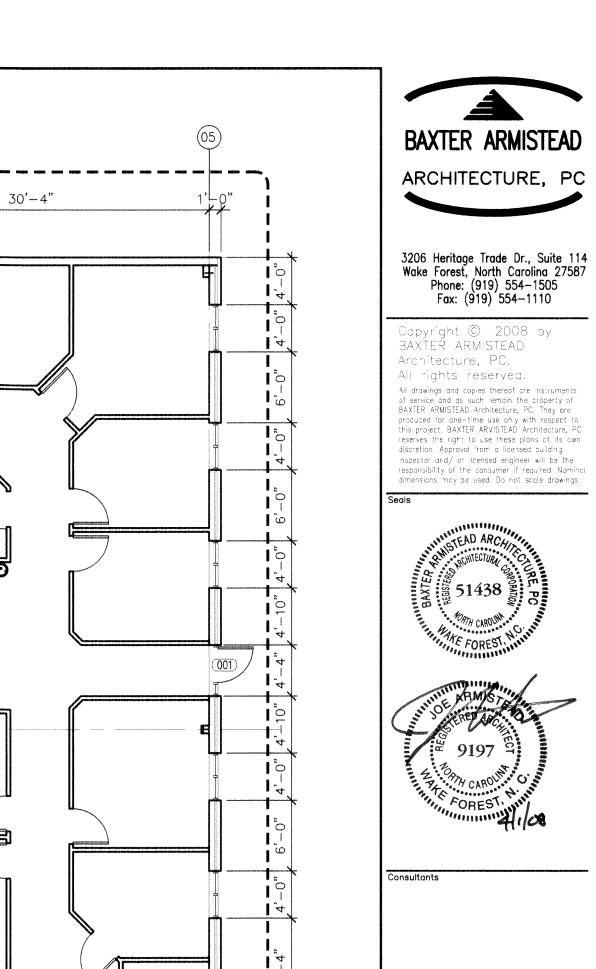


### DOOR SCHEDULE DOOR FRAME HEAD JAMB THR'LD HDWRE REMARKS NO. TYP. W HT. TH. CON. MATERIAL FIN. MAT. FIN. DTL. 001 A 3'-0" 7'-0" 1-3/4 SF ALUM./GLASS FACT ALUM./GLASS FACT · HM 002 B 3'-0" 7'-0" 1-3/4 HM STEEL PAINT - - - - - - - - - -10070 MINERAL MARKET MA ----01. ALL DOOR HARDWARE SHALL BE ADA COMPLIANT W/ LEVER TYPE HANDLES. 02. STYLE AND DOOR SIZES SHALL MATCH EXISTING DOORS. 03. FACT. INDICATED IN SCHEDULE STANDS FOR FACTORY 04. S.F. INDICATED IN SCHEDULE STANDS FOR STORE-FRONT 05. H.M. INDICATED IN SCHEDULE STANDS FOR HOLLOW METAL









C3 FLOOR PLAN

SCALE: 1/8" = 1'-0"

25'-4"

9'-0" 4'-4" 3'-4" 4'-4"

29'-0"

SUITE 602

9'-0"

120'-0"

30'-0"

11'-4"

30'-0"

SUITE 604

6'-8" 3'-4"3'-4"24"3'-4"3'-4" 6'-8"

11'-4"

29'-0"

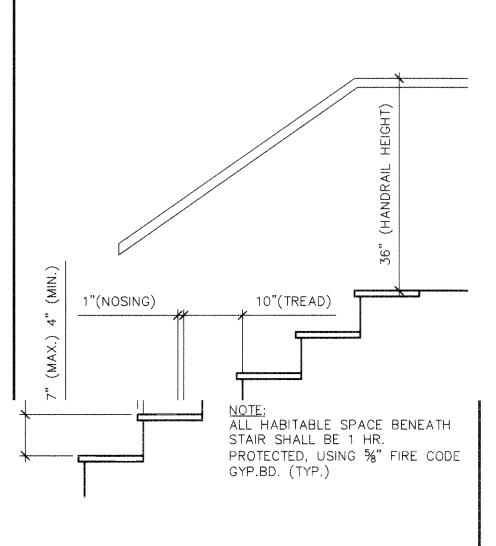
### **GENERAL NOTES:**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATIONG & FIELD VERIFYING ALL EXISTING CONDITIONS. CONTRACTOR SHALL REVIEW ALL CONST. DOCUMENTS (ALL DISCIPLINES) PRIOR TO THE START OF CONST. & REPORT ANY DISCREPENCIES TO THE ARCHITECT FOR CLAIFICATION.

- 2. ALL DIMENSIONS ARE NOMINAL UNLESS OTHERWISE INDICATED.
- 3. ALL DOORS IN NEW WALLS SHALL HAVE A 4" JAMB @ THE HINGE SIDE, UNLESS OTHERWISE NOTED.
- 4. IN ALL CASES MAINTAIN A 12" CLEAR SURFACE ADJACENT TO LATCH ON PUSH SIDE OF DOORS & AN 18" CLEAR SURFACE ADJACENT TO LATCH ON PULL SIDE OF DOORS.
- 5. ALL CONSTRUCTION SHALL COMPLY WITH THE WAKE COUNTY REGULATIONS AND THE NC STATE BUILDING CODES.
- 6. MOUNT ROOM IDENTIFICATION & DIRECTIONAL SIGNAGE WITH RAISED CHARACTERS & BRAILLE 60" AFF TO THE CENTER OF SIGN ON THE LATCH SIDE OF DOORS.
- 7. FIELD VERIFY ALL DIMENSIONS.
- 8. COORDINATE ALL ARCHITECTURAL DRAWINGS W/ WORK OF OTHER DISCIPLINES.
- 9. PROVIDE ADEQUATE BLOCKING FOR ALL WALL MOUNTED EQUIP.

1 INDICAPESO 5.758 - MESTAL STOD - WALLSWAY SYNG - 5-18". 6.40 PD EACH SIDE, STUDS @ 16" O.C. w/ SOUND BATT INSULATION TO 8" MIN. ABOVE FINISHED CEILING.

2. The second indicates 1-hour fire rated walls.



D2 TYPICAL STAIR DETAIL

A-1 SCALE: 3/4" = 1'-0"

					1		
					-	O Issued for Permitting/ Consti	nuction 04/01/08
					1	No. Revision	Date
					l	MAN change	_
					~		
					-		
					~		
						MI	
					~	A Owner's Preliminary Review	01/23/G8
						No. Issued	Date
						0809 A-1.dwq	J. Armistead
					1	File Name:	Drawn By
						Client/ Project	
						Llyod Mattingly/	
5 5	-		- <u></u>	···		SOLEE' "' '	
=	-					MONS	
			-	And the second	·   BUIL	DING 6	
 5					 Rolesville	s, North Carolina	
5		= =			Sheet Titl	e	
5 5 -		-			FL(	OOR PLAN,	D

SCHEDULE & NOTES AS NOTED

Drawing No.

	ROOM	FLC	OR	BAS	SES	WA	LLS	CEIL	ING	TR	IM	CLG.	REMARKS
NO.	NAME	MAT.	FIN.	MAT.	FIN.	МАТ.	FIN.	MAT.	FIN.	MAT.	FIN.	HT.	KEMAKNS
101	VESTIBULE	CONC.	VCT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.			10'-0"	
102	STORAGE	CONC.	VCT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.	-		10'-0"	
103	FOYER	CONC.	VCT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.	4400 4000		10'-0"	
104	MEN'S TOILET ROOM	CONC.	VCT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.	***	****	10'-0"	
105	WOMEN'S TOILET ROOM	CONC.	VCT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.	A110- 40%	anno state	10'-0"	
106	COUNCIL ROOM	CONC.	CPT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.			10'-0"	
107	STORAGE	CONC.	VCT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.	*****		10'-0"	
108	MECHANICAL	CONC.	VCT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.			10'-0"	
109	BREAK ROOM	CONC.	VCT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.			10'-0"	
110	CORRIDOR	CONC.	VCT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.		*****	10'-0"	
111	NETWORK CLOSET	CONC.	VCT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.	CONTRACT NAMES	****	10'-0"	
112	ASST. PLAN. DIR.'S OFFICE	CONC.	CPT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.		1774 M.T.	10'-0"	
113	PLANNING DIR.'S OFFICE	CONC.	CPT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.			10'-0"	
114	ASST. REC. DIR.'S OFFICE	CONC.	CPT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.		***	10'-0"	
115	MAPS/PLOTTER	CONC.	CPT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.		***	10'-0"	and the state of t
116	REC. DIRECTOR'S OFFICE	CONC.	CPT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.	where reality	1270- 520-	10'-0"	
117	WOMEN'S TOILET ROOM	CONC.	VCT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.	MESON ANGELON		10'-0"	
118	MEN'S TOILET ROOM	CONC.	VCT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.	water season	****	10'-0"	
119	CORRIDOR	CONC.	CPT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.	HEED AND	****	10'-0"	
120	CONFERENCE ROOM	CONC.	CPT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.	arms edit-		10'-0"	
121	TOWN MANAGER'S OFFICE	CONC.	CPT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.	etten vann	****	10'-0"	
122	MAYOR'S OFFICE	CONC.	CPT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.	400 400	en.m. exec.	10'-0"	
123	TOWN CLERK'S OFFICE	CONC.	CPT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.	week #8004	man dim	10'-0"	
124	RECEPTION	CONC.	CPT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.	****		10'-0"	
125	WAITING AREA	CONC.	CPT	RUBBER	FACT.	GYP.BD.	PAINT	LAY-IN	FACT.			10'-0"	

ROOM FINISH SCHEDULE NOTES: 01. ALL COLORS SHALL BE SELECTED FROM MANUFACTURER'S STANDARD COLOR PALLETE.

02. FACT. INDICATED IN SCHEDULE STANDS FOR FACTORY

03. VCT INDICATED IN SCHEDULE STANDS FOR VINYL COMPOSITE TILE 04. GYP.BD. INDICATED IN SCHEDULE STANDS FOR GYPSUM WALL BOARD.

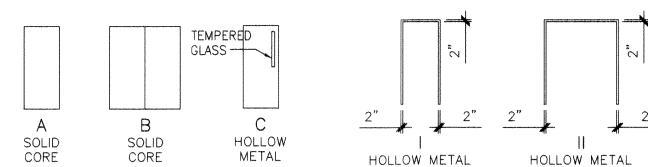
			DC	OR				DOOR	FRAM	1E	III AD	LAME	THR'LD	HDWRE	DEMARKS
NO.	TYP.	W	НТ.	TH.	CON.	MAT.	FIN.	MAT.	FIN.	DTL.	HEAD	JAMB	INKLU	HUWKE	REMARKS
101A	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT		***			****	
101B	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT	I	####	****	-		20 MIN. FIRE-RATED, PROVIDE CLOSI
102	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT		49.00	Name .		4894	20 MIN. FIRE-RATED, PROVIDE CLOS
103	В	6'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT	11	***************************************	NAME -		manus.	20 MIN. FIRE-RATED, PROVIDE CLOS
104	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT		12049.		****		
105	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT			****	Name of the last control o	****	
106	NOT USEE	) –		alested	_			****		ession		Mana			
107	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT	I	ме	MANUEL			
108	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT	I	4949-				
109	С	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT	I	CONTROL OF STREET, STR		400a		20 MIN. FIRE-RATED, PROVIDE CLOS
110	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT	I	MANAGE - SALES				20 MIN. FIRE-RATED, PROVIDE CLOS
111	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT	I	MANA.	*****	*****	ATRIA	
112	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT	I		7000		ARRING ARRIVATION OF THE PROPERTY OF THE PROPE	
113	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT		man .	****		NAME OF THE PERSON OF THE PERS	
114	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT		****	*****	40.000	waters.	
115	NOT USED	-				*****	****	Needer	****	Andre .	open.	7500		Annual Committee of the	
116	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT	I		AMA	<del></del>		
117	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT			***************************************		**************************************	
118	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT		10000	Name of the Control o		40000	
119	С	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT			OMBON.	****	***************************************	20 MIN. FIRE-RATED, PROVIDE CLOS
120	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT		00/00/5				
120B	NOT USEC	)		om.	****	em.		emitro	own		****			angus.	
121	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT	I				-	
122	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT	I			drage.		
123	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT	1	modije	Marks.	***	Marie Control of the	
124	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT	I			****		
125	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT	I	1870	NAME OF THE OWNER, THE		work	
126	Α	3'-0"	7'-0"	1 3/4"	S.C.	WOOD	PAINT	WOOD	PAINT	I	*****	***************************************	.enus		
DOOF	RSCHE	DULE	NOTES	<u>}:</u>		***************************************	issamura ana amanand	WE SAME STATE OF THE SAME STAT	diversion of the second	<u> </u>	Inches Company of the		<del> </del>		

### DOOR TYPES:

05. H.M. INDICATED IN SCHEDULE STANDS FOR HOLLOW METAL

04. S.C. INDICATED IN SCHEDULE STANDS FOR SOLID CORE

### FRAME TYPES:



### **GENERAL NOTES:**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATIONG & FIELD VERIFYING ALL EXISTING CONDITIONS. CONTRACTOR SHALL REVIEW ALL CONST. DOCUMENTS (ALL DISCIPLINES) PRIOR TO THE START OF CONST. & REPORT ANY DISCREPENCIES TO THE ARCHITECT FOR CLAIFICATION.

- 2. ALL DIMENSIONS ARE NOMINAL UNLESS OTHERWISE INDICATED.
- 3. ALL DOORS IN NEW WALLS SHALL HAVE A 4" JAMB @ THE HINGE SIDE, UNLESS OTHERWISE
- 4. IN ALL CASES MAINTAIN A 12" CLEAR SURFACE ADJACENT TO LATCH ON PUSH SIDE OF DOORS & AN 18" CLEAR SURFACE ADJACENT TO LATCH ON PULL SIDE OF DOORS.

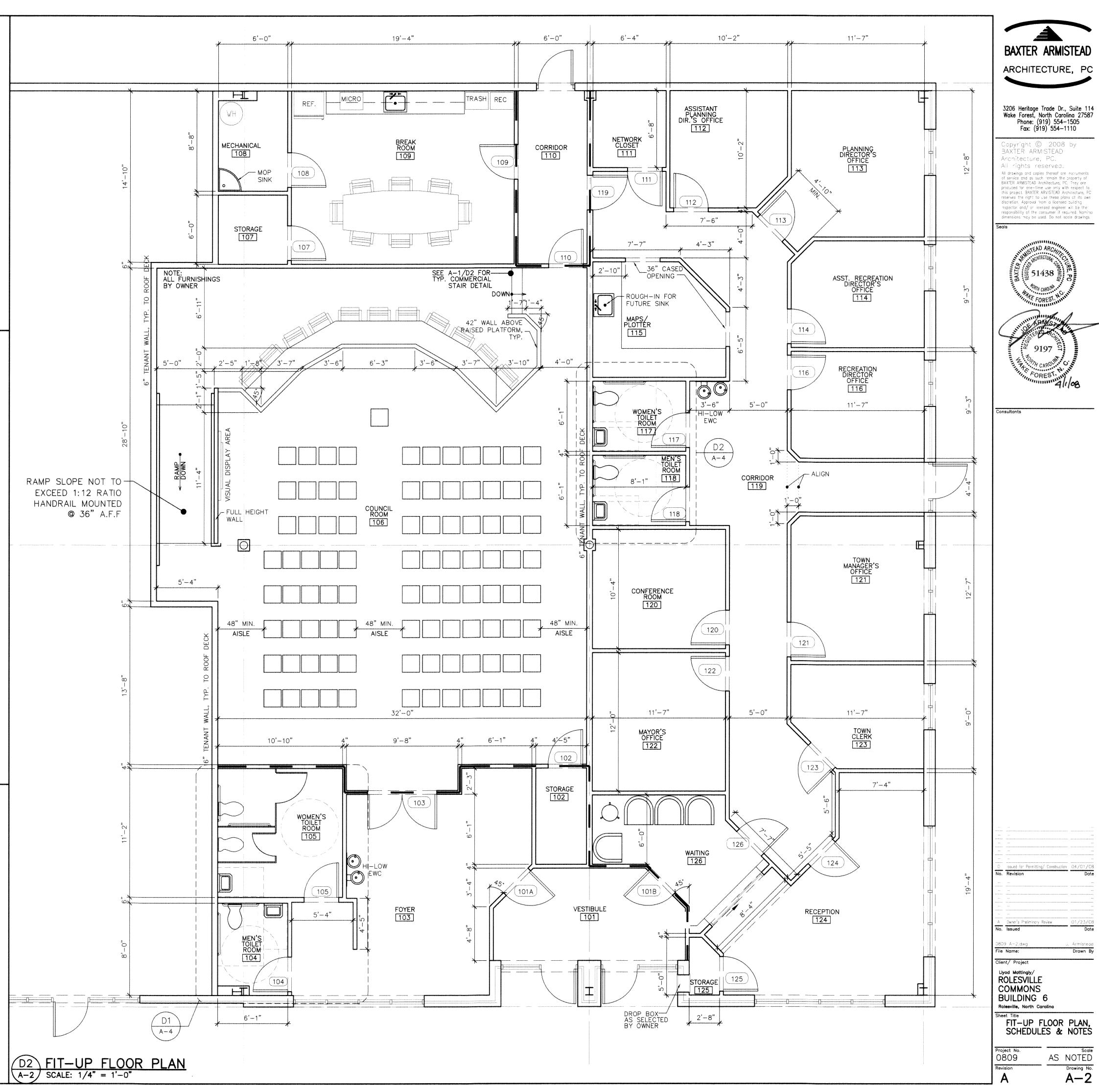
5. ALL CONSTRUCTION SHALL COMPLY WITH THE TOWN OF WAKE COUNTY REGULATIONS AND THE NC STATE BUILDING CODES.

6. MOUNT ROOM IDENTIFICATION & DIRECTIONAL SIGNAGE WITH RAISED CHARACTERS & BRAILLE 60" AFF TO THE CENTER OF SIGN ON THE LATCH SIDE OF DOORS.

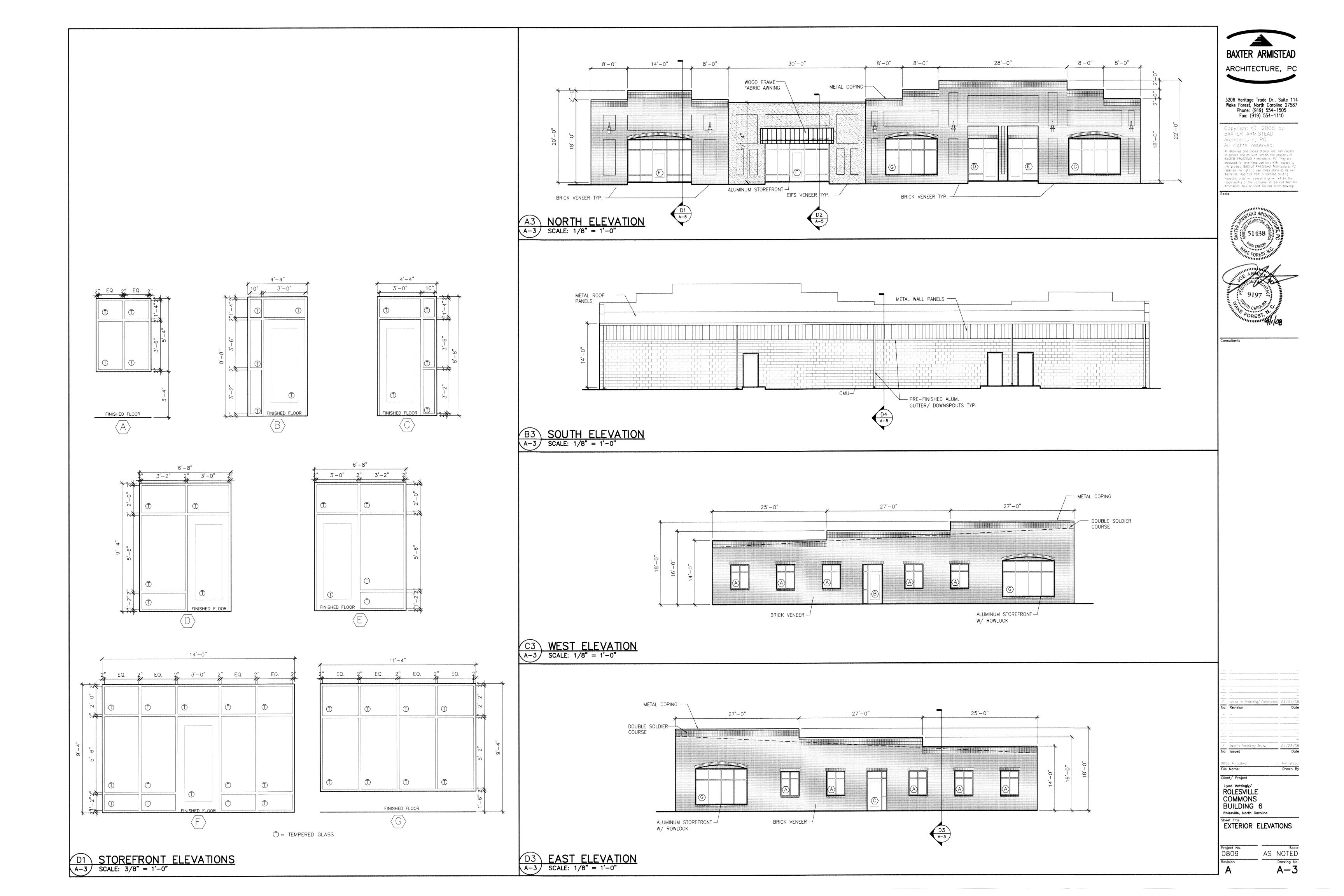
- 7. FIELD VERIFY ALL DIMENSIONS.
- 8. COORDINATE ALL ARCHITECTURAL DRAWINGS W/ WORK OF OTHER DISCIPLINES.
- 9. PROVIDE ADEQUATE BLOCKING FOR ALL WALL MOUNTED EQUIP.

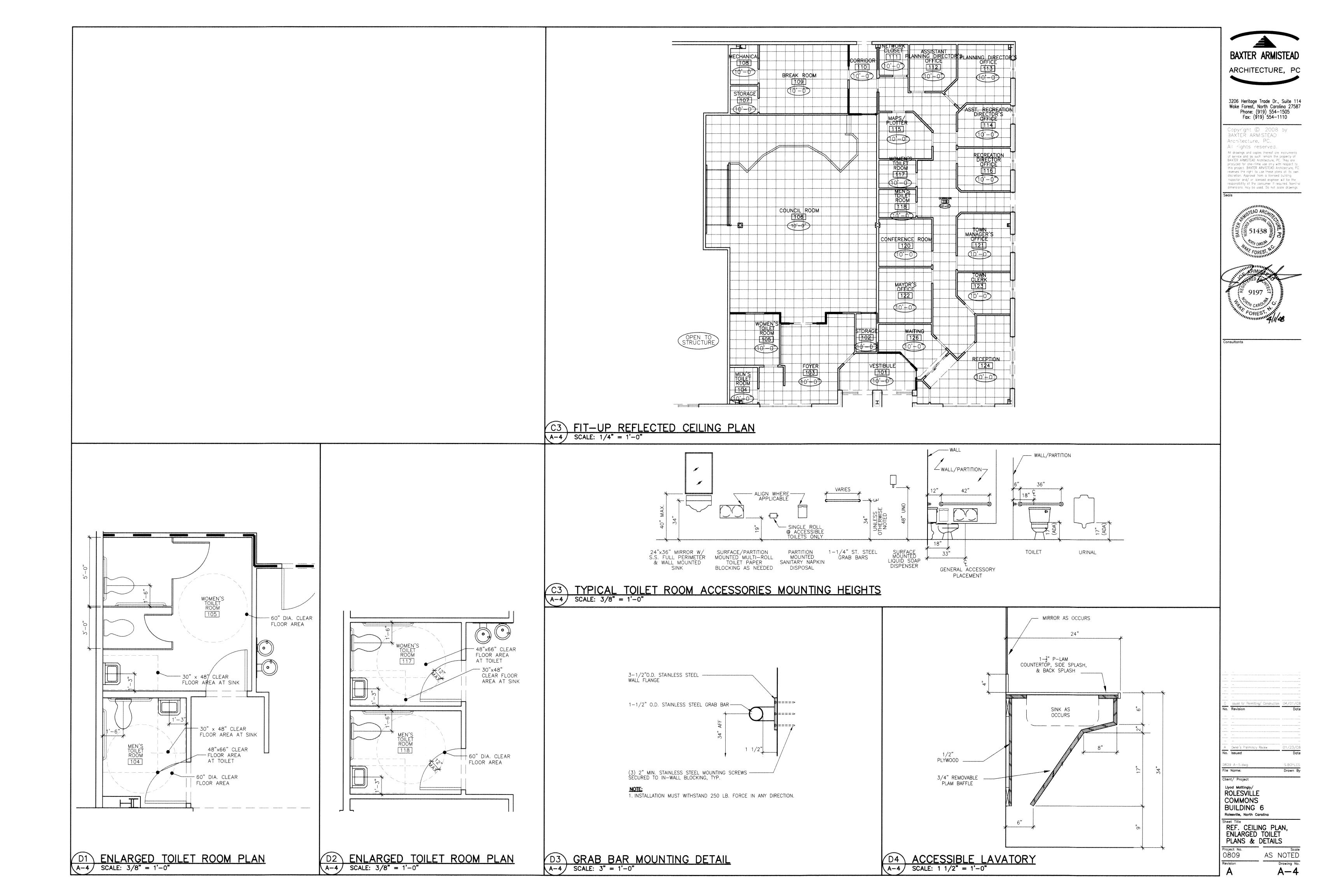
### WALL LEGEND:

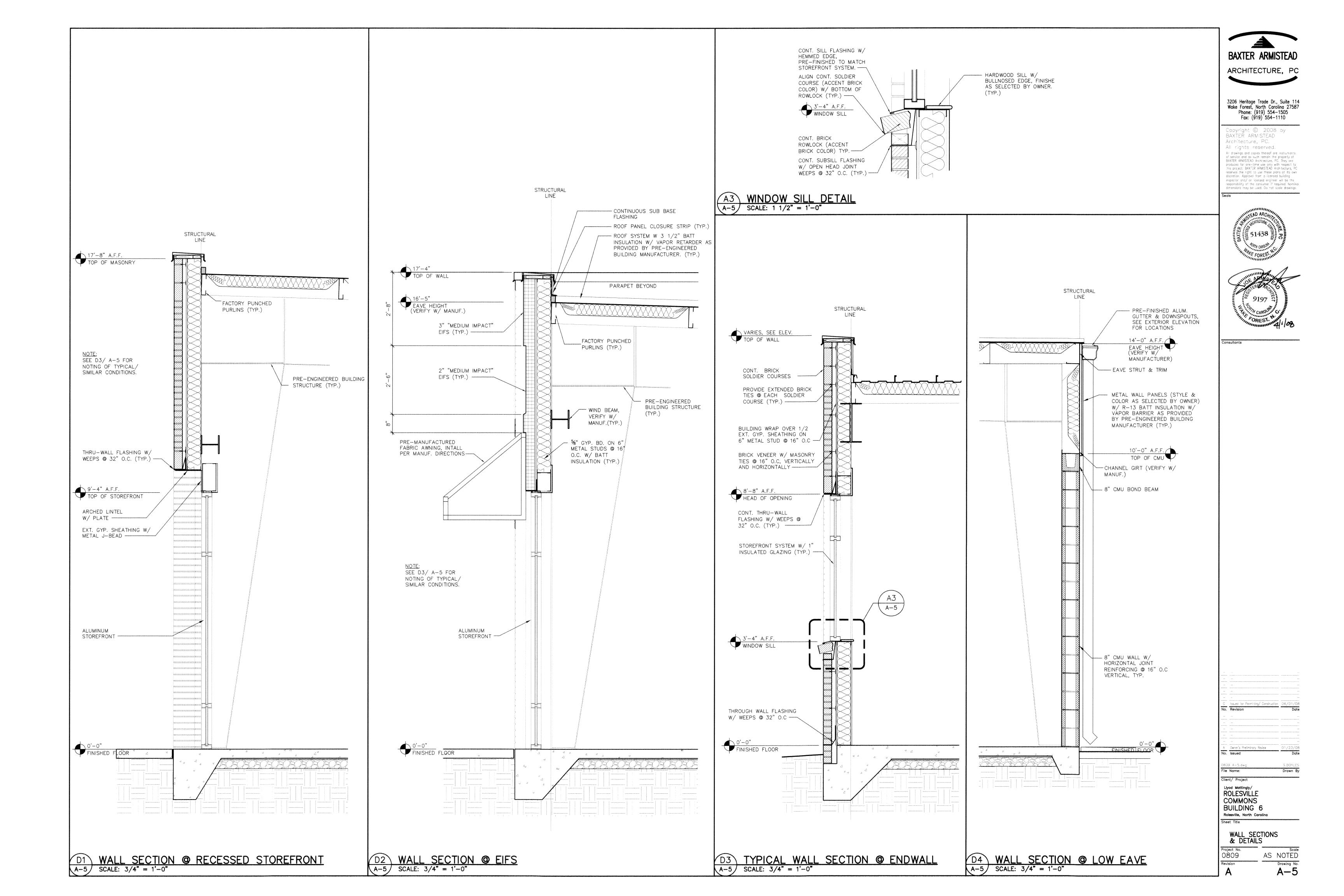
- 1. \_\_\_\_\_\_INDICATES 3 1/8" METAL STUD WALLS W/ 5/8" GYP.BD. EACH SIDE, STUDS © 16" O.C. W/ SOUND BATT INSULATION TO 8" MIN. ABOVE FINISHED CEILING.
- 2. ETETE INDICATES 1-HOUR FIRE RATED WALLS.

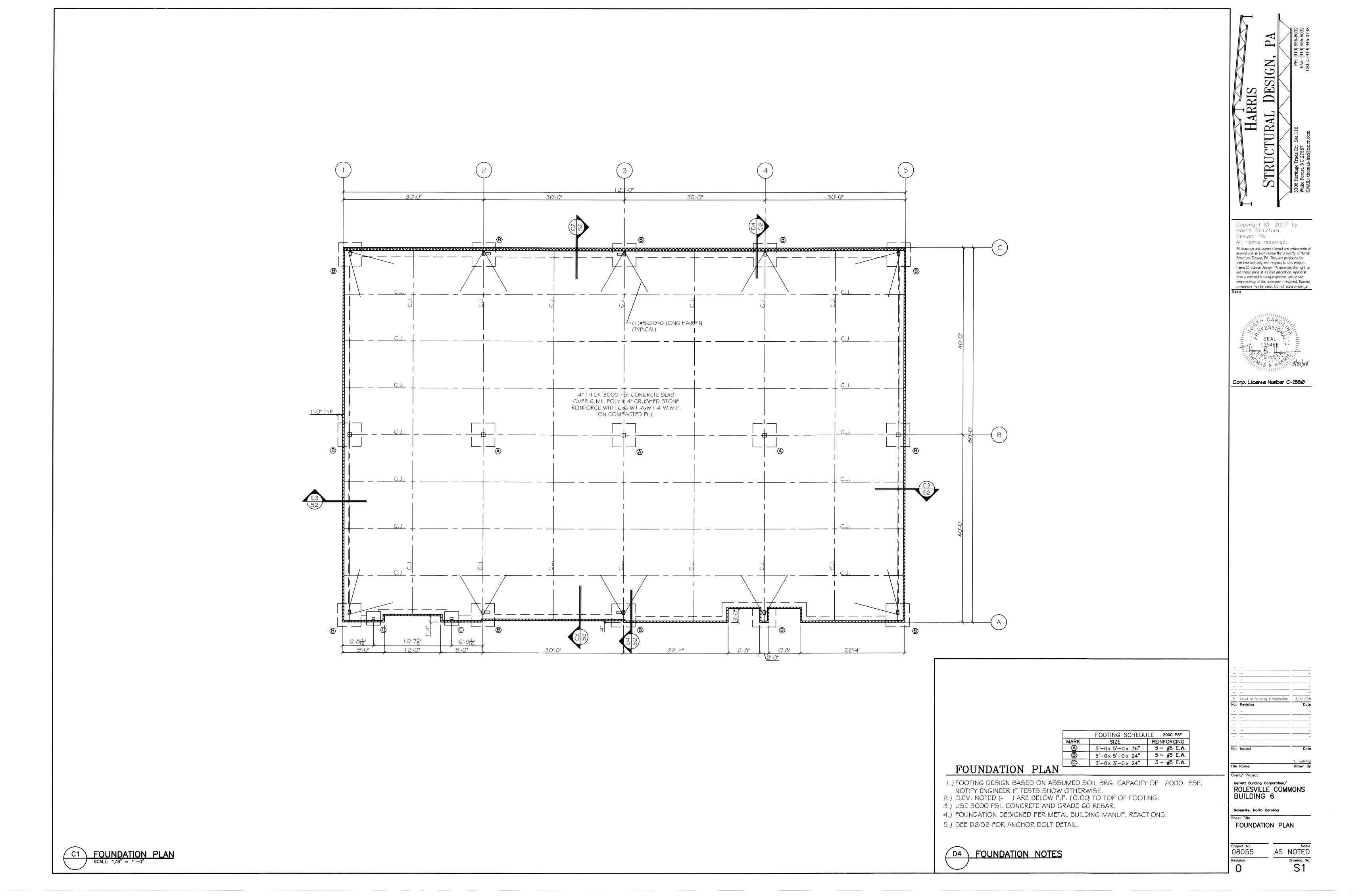


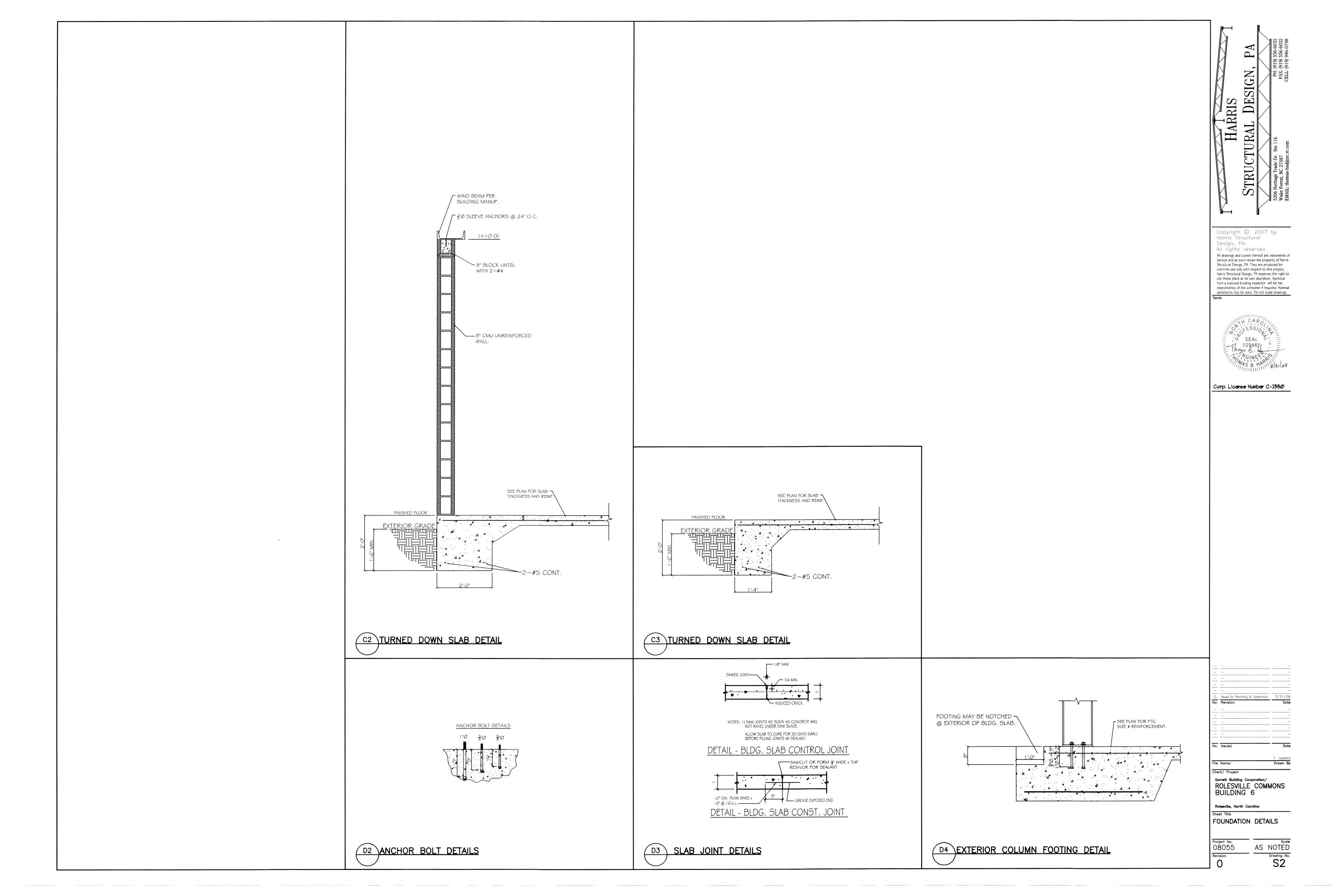
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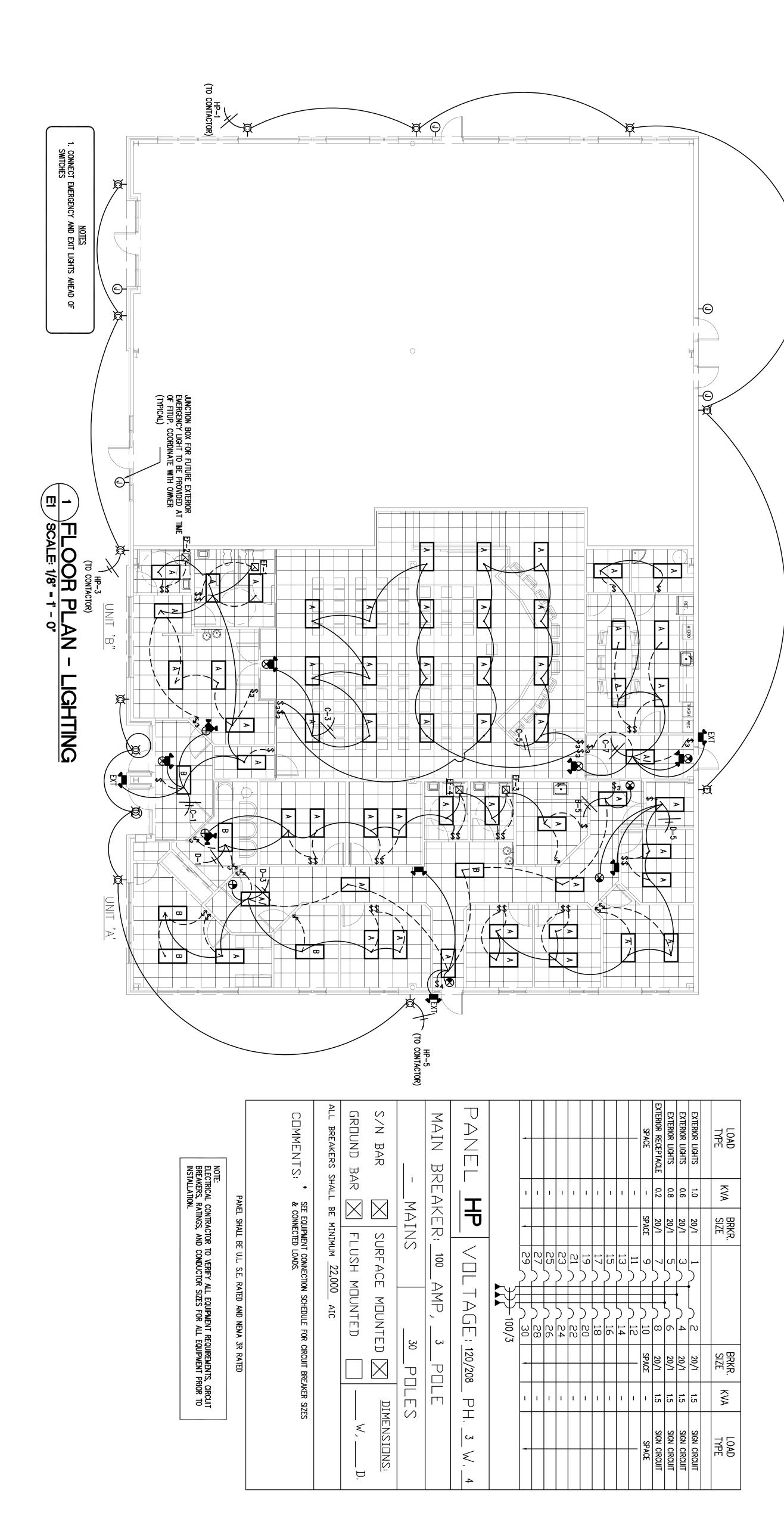






| SYMBOL | REMARKS | RYN | KYA | HP | VOLTS | MCA | DISC. SW. | CRR BKR OR SIZE | SIZE | MRE SIZE |

			<b>L</b>	2	ţ	<b>⊗</b>	Е	D	C	В	Α	MARK	
	(1) ALL BALLASIS SHALL COMPLY WITH THE NORTH CAROLINA ENERGY CODE (2) LAMPS SHALL PROVIDE 1 FC FOR AT LEAST 25' FOR A MINIMUM OF 90 MINUTES (3) LIGHT CONTROLLED BY PHOTOCELL. MATCH EXISTING EXTERIOR BUILDING LIGHTS.	CALL CLINONIA AFIN-1204		IITHONIA I OM-S-W-1-R-120V	LITHONIA IND-H2006	LITHONIA LQM-S-W-3-R-120V	LITHONIA TWH 150MH-120	LITHONIA LP8H-70M-120	DECORATIVE FIXTURE BY OWNER	LITHONIA 2GT8-432-A12-120	LITHONIA 2GT8-332-A12-120	MANUFACTURER/MODEL	
NOTE: ELECTRICAL CONTRACTOR TO VERIFY ALL EQUIPMENT REQUIREMENTS, CIRCUIT BREAKERS, RATINGS, AND CONDUCTOR SIZES FOR ALL EQUIPMENT PRIOR TO	AST 25' FOR A MINIMUM OF 90 MINUTES.  CH EXISTING EXTERIOR BUILDING LIGHTS.	EXILENDIA ENESS	EVIEDIOD ECDESS	LED EMERG. EXIT/WALLPACK COMBO	EMERGENCY WALLPACK	LED EMERG. EXIT	WALLPACK WITH FULL CUTOFF	H.I.D. DOWNLIGHT	EXTERIOR WALL MOUNTED FIXTURE	2X4 FLUOR. LAY-IN	2X4 FLUOR. LAY-IN	DESCRIPTION	LIGHT FIXTURE SCH
EQUIPMENT REQ		120/1		120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	VOLT/PH	E SCH
UIREMENTS, CIRCUIT		1		1	1	1	1-ELECTRIC	1-ELECTRIC	N/A	1-ELECTRONIC	1-ELECTRONIC	BALLAST QUANTITY-TYPE	EDULE
		1		1	2-20/6V	_	150 WATT	1-70W MH	-	4-F32T8	3-F32T8	LAMPS QUANTITY-TYPE	
		-	יו ת	12	16	3	180	94	200 (MAX)	112	88	TOTAL WATTS	
												D	[

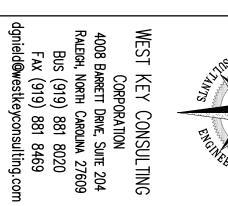


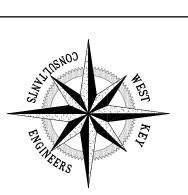
ROLESVILLE TOWNE
COMMONS BLDG. - 6
U.S. HWY. 401 NORTH
ROLESVILLE, NC

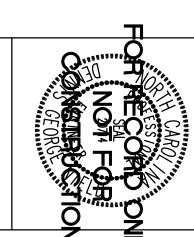
REMARKS

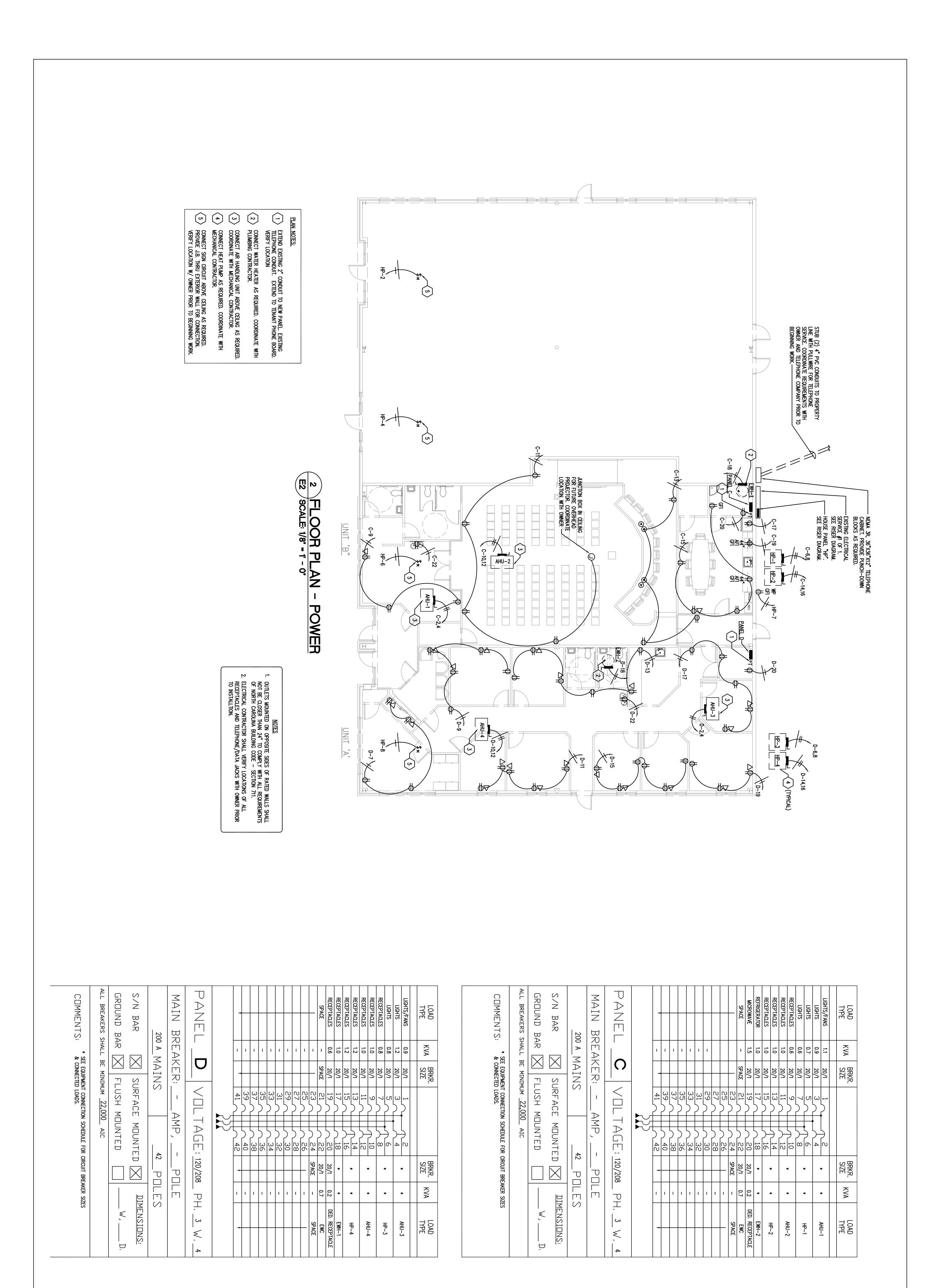
Garrett Building Corporation

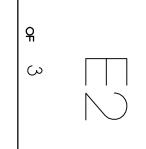
P.O.Box 17605 Raleigh, NC 27619 919/782-1147







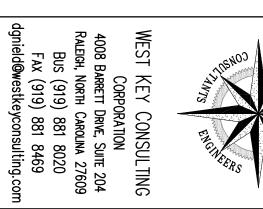


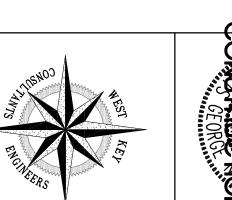


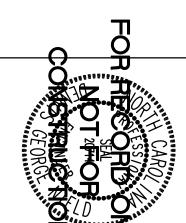
ROLESVILLE TOWNE COMMONS BLDG. - 6 U.S. HWY. 401 NORTH ROLESVILLE, NC

Garrett Building Corporation

P.O.Box 17605 Raleigh, NC 27619 919/782-1147







# GENERAL NOTES AND REQUIREMENTS.

INTERIOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN MINIONS. DO NOT SCALE THESE DRAWINGS. INSTALLATION SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, STATE BUILDING CODE, ND ALL REQUIREMENTS OF THE LOCAL INSPECTOR (FURNISH INSPECTION CERTIFICATE). ALL ORK SHALL BE BY LICENSED ELECTRICAL CONTRACTOR. WORKMANSHIP SHALL CONFORM TO NECA PUBLICATION "STANDARDS OF INSTALLATION."

4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO INSTALLATION OF ELEC. EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.

5. ALL BRANCH CIRCUITS SHALL BE IN ZINC—COATED EMT, OR RIGID CONDUIT AS PERMITTED OR REQUIRED BY THE NATIONAL ELECTRICAL CODE. SCHEDULE 40 PVC CONDUIT MAY BE USED ONLY FOR THE SECONDARY UNDERGROUND SERVICE, THE UNDERGROUND TELEPHONE SERVICE CONDUIT, AND BRANCH CIRCUIT TELEPHONE SYSTEM CONDUITS LOCATED BELOW THE FLOOR SLAB ON GRADE OR BURIED ON THE EXTERIOR OF THE BUILDING, OR IN CONCRETE BLOCK WALLS. ALL CONDUIT SHALL BE 1/2" MINIMUM SIZE. EMT FITTINGS SHALL BE STEEL COMPRESSION TYPE. PVC SCHEDULE 80 CONDUIT SHALL BE USED FOR ANY EXTERIOR EXPOSED RUNS OF CONDUIT LONGER THAN 25 FEET. ALL CONDUCTORS SHALL BE COPPER TYPE THHN, OR XHHW, SOLID FOR #10 AWG OR #12 , AND STRANDED FOR ALL LARGER SIZES.

9. CONDUITS MAY BE RUN EXPOSED IN MECHANICAL AREAS. CONDUITS SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS AND SHALL BE RUN IN GROUPS. SEAL ALL PENETRATIONS AIR TIGHT AROUND ALL CONDUITS WHEN PASSING INTO MECHANICAL ROOMS. 8. ALL WIRE AND CONDUIT SIZES ARE BASED ON 75°C THHN WIRE UNLESS OTHERWISE NOTED. ALL TERMINATIONS & DEVICES SHALL BE RATED FOR 75°C. 7. ALL WIRING SHALL BE CONCEALED IN WALLS, UNDER SLAB, OR ABOVE SUSPENDED CEILING SPACE.

12. ALL MOUNTING HEIGHTS ARE GIVEN TO THE BOTTOM OF THE DEVICE UNLESS NOTED OTHERWISE. 11. WHERE FIRST OUTLET ON BRANCH CIRCUIT IS GREATER THAN FIFTY (50) FEET FROM PANELBOARD, USE #10 AWG MINIMUM TO THE FIRST OUTLET. 10. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM.

13. THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION. 14. ALL FUSES, DISCONNECT SWITCHES, AND BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR.

15. ALL DISCONNECT SWITCHES ARE TO BE FUSIBLE TYPE. FUSE IN ACCORDANCE WITH NAMEPLATE DATA WITH DUAL ELEMENT TYPE FUSES BY BUSSMAN OR EQUAL. I6. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, JNLESS NOTED OTHERWISE BY OTHER DISCIPLINES. COORDINATE CLOSELY.

18. COORDINATE LOCATIONS OF ALL LIGHT FIXTURES WITH THE REFLECTED CEILING PLANS. LIGHT FIXTURES INSTALLED IN MECHANICAL AREAS SHALL AVOID MECHANICAL PIPING, EQUIPMENT, DUCTWORK, ETC. 17. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE—REQUIRED AND MANUFACTURER—RECOMMENDED SERVICING CLEARANCES ARE MAINTAINED. INSTALLATIONS SHALL FULLY COMPLY WITH NEC 110—26 AND NEC 384—4 FOR CLEARANCE REQUIREMENTS.

**▲ ♦ ♦** 

CLOCK OUTLET

ABOVE FLO

TELEPHONE WALL OUTLET - 18" A.F.F. OR AS NOTED (RUN 3/4" EMT TO ACCESSIBLE POINT ABOVE CEILNG.) PROVIDE PULL WIRE. OUTLETS & CABLES PROVIDED BY TENANT.

19. GROUND SHALL BE PER N.E.C. PROVIDE SEPARATE GROUNDING CONDUCTOR FOR ALL CIRCUITS. GROUND TELEPHONE EQUIPMENT PER NEC.

Δ

MODEM WALL OUTLET SAME AS TELEPHONE.

TELECOMMUNICATIONS WALL OUTLET SAME AS TELEPHONE.

TELEVISION WALL OUTLET - 18' A.F.F.
RUN RG59U IN 3/4' EMT TO
TELEPHONE BACKBOARD

A.F.F.

3

**O O** 

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JUNCTION BOX
FLOOR RECEPTACLE - STEEL CITY 601 BOX
AND CARPET RING IF REQUIRED
TELEPHONE FLOOR OUTLET - STEEL CITY 601
W/P-60-2-3/4 AL AND CARPET RING IF
REQUIRED (RUN 3/4" EMT TO TEL. BACKB'D.)

Ø

COMPUTER FLOOR OUTLET SAME AS TELEPHONE.

21. THE ELECTRICAL CONTRACTOR SHALL PATCH ANY WALL, CEILING, OR FLOOR OPENINGS AND PENETRATIONS RESULTING FROM DEMOLITION OR NEW WORK IN EXISTING AREAS. PROVIDE CHECK METERING IF REQUIRED BY NCSBC, VOLUME X.

23. COMBINE HOMERUNS IN CONDUIT AS DESIRED (3 ON 3-PHASE, DO NOT OVERLOAD NEUTRALS. ALL CIRCUITS SHALL BE TESTED WITH 500 VOLT TESTER PRIOR TO ENERGIZING. 2 ON SINGLE PHASE).

26. RECEPTACLES, SWITCHES, COVERPLATES, ETC. SHALL BE IVORY WITH IVORY PLATES BY HUBBELL, LEVITON OR SIERRA EXCEPT AS SPECIFIED. VERIFY COLOR PRIOR TO PURCHASE. ALL WALL OUTLET BOXES SHALL BE STEEL CITY OR RACO.

CONNECT FAN

TIME DELAY SWITCH (15 MIN) - SLIDE TYPE DIMMER SWITCH -

44,

€

TELEPHONE BACKBOARD - 4'x8'x3/4' FII PLYWOOD. PAINT GRAY - PULL #6 GROI

RE-TREATED UND WIRE.

DISCONNECT SWITCH - FUSIBLE

MOTOR SWITCH

CONDUIT SHALL BE LABELED EVERY TEN FEET. PROVIDE PULL WIRE IN ALL EMPTY CONDUIT.

29. ALL CIRCUIT BREAKERS IN PANELS SHALL BE AS SHOWN ON PLANS. IF AIC RATINGS FOR CIRCUIT BREAKERS ARE NOT SHOWN ON PLANS, CIRCUIT BREAKERS SHALL BE FULLY RATED FOR SYSTEM. 30. CONTRACTOR SHALL PROVIDE ENGINEER A MINIMUM OF 3 COPIES OF SHOP DRAWINGS FOR LIGHTS, SWITCHGEAR, PANELS, ETC. 31. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE W/ ALL OTHER TRADES REGARDING VOLTAGES, LOADS, CIRCUIT BREAKERS, ETC. PRIOR TO BEGINNING ANY

33. PANELS SHALL BE BY SQUARE 'D', G.E., SIEMENS OR CUTLER-HAMMER. ALL PANELS SHALL BE 'DOOR-IN-DOOR' TYPE. 32. AS USED ON THESE DOCUMENTS, THE WORD "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL THE ITEM OR EQUIPMENT AND MAKE THE FINAL CONNECTION AS REQUIRED.

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J.B. W/ WHIP FOR POWER FOR FURNITUI SYSTEM. VERIFY EXACT LOCATION AND FWITH SYSTEM SUPPLIER PRIOR TO ROUG

ORE REQUIREMENTS IGH-IN.

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SERVICE GROUND

STUB 1' CONDUIT TO MAIN TELEPHONE PROVIDE PULL WIRE.

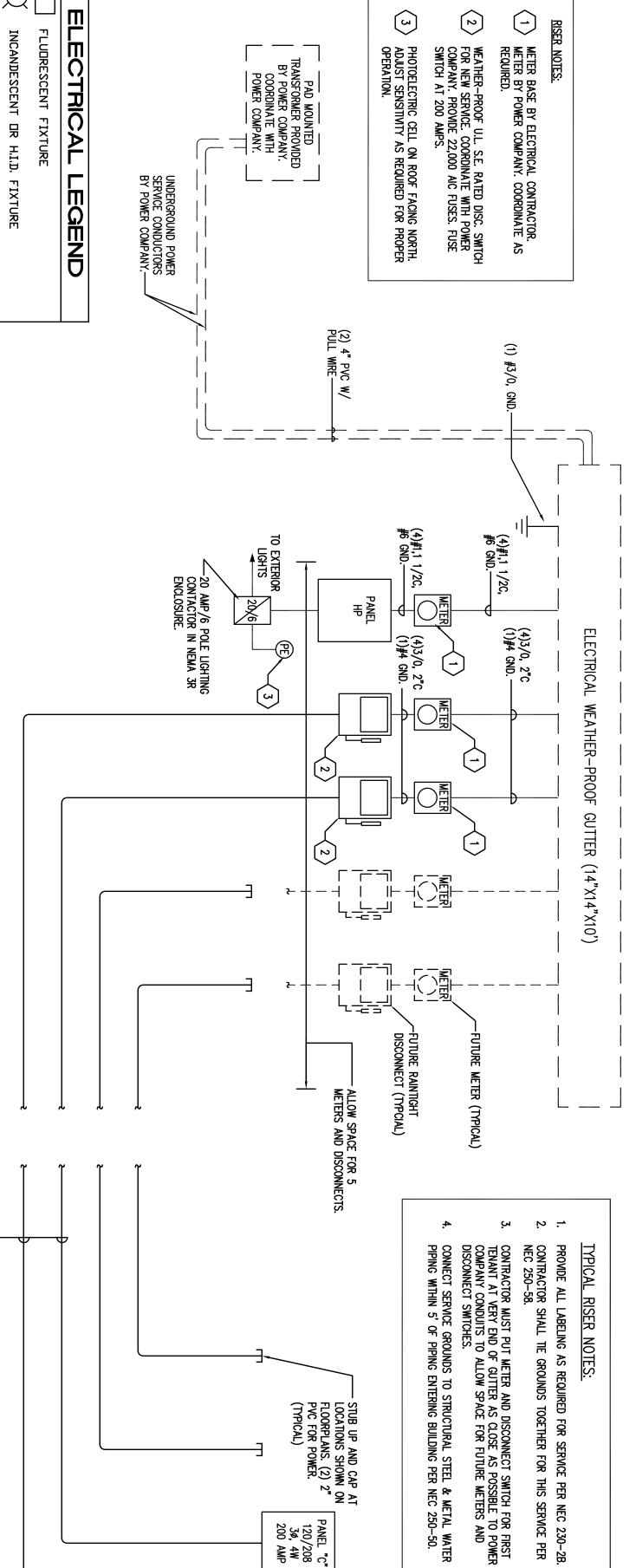
ONE HOUR RATED PARTITION
TWO HOUR RATED PARTITION
THREE HOUR RATED PARTITION
FOUR HOUR RATED PARTITION

 $\Theta$ 

NITURE REQUIREMENTS 3H-IN. /E CLG.

ALARM LEGEND FOR FIRE ALARM SYM

34. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL REQUIREMENTS OF THE NCSBC, VOLUME 1-C WHICH ARE APPLICABLE TO THIS PROJECT REGARDLESS OF WHETHER ALL DETAILS IN INDICATED ON PLANS. 36. IT IS NOTED THAT IF TELEPHONE SERVICE IS NOT LOCATED WITHIN 20' OF ELECTRICAL SERVICE, THEN PROVIDE SEPARATE GROUNDING ELECTRODE AS REQUIRED PER NEC 800-11(C), EXCEPTION. 35. IF FIRE ALARM SYSTEM IS PROVIDED FOR BUILDING, ALL PULL STATIONS SHALL COMPLY WITH ALL REQUIREMENTS OF NCSBC, VOLUME 1—C, CHAPTER 18 (SIGNAGE).



SINGLE POLE WALL SW 3-WAY WALL SWITCH 4-WAY WALL SWITCH HOME RUN TO PANEL QUAD RECEPTACLE POWER RECEPTACLE NONSWITCH CIRCUIT DUPLEX RECEPTACLE SWITCHED CIRCUIT 18' A.F.F.

OR AS NOTED

SERVICE #1 O ELECTRICAL SCALE: NONE

RISER

DIAGRAM

(4)3/0,

2"C,

(1)#6 GND.

LIGHTING ELECTRICAL PROVIDE A STANDARD RISER DIAGRAM WHICH INDICATES DESIGNATED POINTS CHECK METERING. PROVIDE A STANDARD PANEL SCHEDULE DESCRIPTION WHITE DESCRIPTION WHITE DIFFERENT ENDUSE LOADS. PRESCRIPTIVE IG SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE

NUMBER OF LAMPS IN FIXTURE

BALLAST TYPE USED IN FIXTURE

NUMBER OF BALLASTS IN FIXTURE

TOTAL WATTAGE PER FIXTURE

TOTAL INTERIOR WATTAGE SPECIFIED V SYSTEM AND EQUIPMENT PERFORMANCE | S SEE LIGHTING FIXTURE SCHEDULE ALLOWED ENERGY COST BUDG

EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS)  MOTOR HORSEPOWER NUMBER OF PHASES MINIMUM EFFICIENCY MOTOR TYPE # OF POLES  DESIGNER STATEMENT:  TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA ENERGY CODE.  SIGNED:
--

SC	ESTIMATED LOADS (	
		HCH FCR
	EWC	1 ) )
	HEAT PUMPS	
	AIR HANDLING UNITS	ĔT 🗆
	ELECTRIC WATER HEATER	
	EXHAUST FANS	
	RECEPTACLES & MISC	
	INTERIOR BUILDING LIGHTS	
	COMPONENT	
5	CONNECTED LO	

<b>ESTIMATED</b>	ESTIMATED LOADS (2400 SF TENANT)	F TENAN	E
COMPONENT	CALCULATION	AREA	KVA
LIGHTS	(3.5 WATTS/SF X 1.25)	2400 SF	10.5 KVA
CEPTACLES & MISC.	(2 WATTS/SF)	2400 SF	4.8 KVA
TRIC WATER HEATER	(ESTIMATE)	-	2.0 KVA
HVAC EQUIPMENT	(11.0 WATTS/SF)	2400 SF	26.4 KVA
	101	TOTAL KVA	43.7 KVA
	LOAD	121.3 AMPS @ 208/3¢	S @ 208/3ø

CONNECTED LOADS (PANEL "HP")	DADS (PANEL "	<u> </u>
COMPONENT	CALCULATION	KVA
EXTERIOR BUILDING LIGHTS	(AT 125%)	2.9 KVA
RECEPTACLES & MISC		0.2 KVA
SIGN CIRCUITS		6.0 KVA
	TOTAL KVA	9.1 KVA
	<b>LOAD:</b> 25.3	25.3 AMPS @ 208/3ø
CONNECTED LOADS SERVICE 1 OF 1	ADS SERVICE 1	유1
COMPONENT	CALCULATION	KVA
PANEL HP		9.1 KVA
PANEL A (FUTURE)		43.7 KVA
PANEL B (FUTURE)		43.7 KVA
PANEL C		53.7 KVA
PANEL D		51.2 KVA
	TOTAL KVA	192.3 KVA
	522 8	5228 VNDC @ 208/24

3-28-08			REVISIONS	ROLESVILLE TO' COMMONS BLDC  U.S. HWY. 401 NORTH

OWNE )G, - 6

ROLESVILLE, NC

LOAD

TOTAL KVA

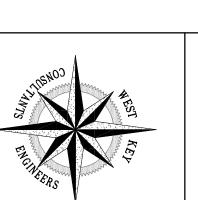
@ 208/3ø

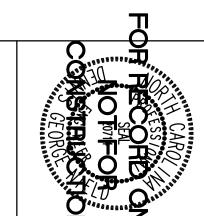
Garrett Building Corporation

P.O.Box 17605 Raleigh, NC 27619 919/782-1147

WEST KEY CONSULTING

PANEL "D" 120/208 3ø, 4W 200 AMP





(1) PROVIDE ROOF CAPS AS SHOWN TO SUPPLY OUTSIDE AIR. PROVIDE UNIT WITH FAN COIL FILTER, ELECTRIC HEAT COIL, DISCONNECT SWITCH, FACTORY INSTALLED THERMOSTATIC EXPANSION VALVE, AND SINGLE POINT WIRING CONNECTION. PROVIDE WITH CARRIER 7-DAY PROGRAMMABLE THERMOSTAT. VOLT/PH 208/1 208/1 208/1 208/1 (1) PROVIDE CYCLE PROTECTOR, FILTER DRIER, HIGH AND LOW PRESSURE SWITCHES, EVAPORATOR FREEZE THERMOSTAT, ISOLATION RELAY, COMPRESSOR START ASSIST, CRANKCASE HEATER, OUTDOOR THERMOSTAT, THERMOSTATIC EXPANSION VALVE, TIME DELAY RELAY AND ALL ACCESSORIES REQUIRED FOR LOW AMBIENT OPERATION TO 05.

Z 롨 AREA PROVIDE ZONE DAMPER TO CLOSE DAMPER ON SIGNAL FROM THERMOSTAT (50) **⊠** (20) 200 UNIT 'B" HVAC 18X16 Ů 3200 (2°C) UNIT 'A' 

Ω	CLASSROOM	OFFICE	CLASSIFICATION	SDACE		
GRAND TOTAL OUTSIDE AIR REQUIRED	1600 SF	3450 SF	AREA	EI 008	0	
AL OUTSIE	1	7	PEOPLE/ PEOPLE	NUMBER	<b>UISID</b>	
XIR F	105 🞾	25	PEOPLE	INTAI	III ≱	
REQUIRED	15	20	PERSON (1)	CEN /	R CAL	
	ı	ı	SQ. FT CFM	CEM /	OUTSIDE AIR CALCULATION	
	1575	500	CFM	INTAI		
1287	787 <b>③</b>	500	CFM	Uadii IOad		
1290			CFM	DESIGN		

SPACE FLOOR NUMBER OF TOTAL CFM/O SQ. FT TOTAL REQUIRED DESIGN SSIFICATION AREA 1000 SF 7 25 20 - 500 500  2.ASSROOM 1600 SF - 105© 15 - 1575 787 ©		0	UISID		CALC	OUTSIDE AIR CALCULATION	O		
3450 SF 7 25 20 - 500 500 1600 SF - 105② 15 - 1575 787③	SPACE	FLOOR ABEA	NUMBER PEOPLE/ (1)	DEUDI E	CFM/	OFM/	TOTAL	REQUIRED	DESIGN
1600 SF - 105 <b>②</b> 15 - 1575	OFFICE	3450 SF	7		20	ı	500	500	
	LASSROOM	1600 SF	1	<b>105</b> Ø	15	1	1575	787 <b>③</b>	

	AIR DI	STRIE	AIR DISTRIBUTION SCHEDULE	SHED.	Č L E	
MARK	NAILOR MODEL	PANEL SIZE	TYPE	SIZE NECK	TYPE	REMARKS
⊛	MODEL 6500, STEEL, LOUVERED FACE, MITH BEVELED FRAME, SQUARE TO ROUND TRANSITION, & OBD.	12X12	SURFACE MOUNTED	6"ø (9X9)	SUPPLY	VERIFY CEILING TYPES. COLOR BY ARCHITECT
⊞	MODEL RNS, STEEL, LOUVERED FACE, ROUND NECK, W/ OBD	24X24	LAY—IN CEILING	ø.,8	SUPPLY	VERIFY CEILING TYPES. COLOR BY ARCHITECT
0	MODEL RNS, STEEL, LOUVERED FACE, ROUND NECK, W/ OBD	24X24	LAY-IN CEILING	10"ø	SUPPLY	VERIFY CEILING TYPES. COLOR BY ARCHITECT
0	MODEL 4360, STEEL, PERFORATED, PROVIDE W/ SQR. TO RND. TRANS.	24X24	LAY—IN CEILING	22X22	RETURN	VERIFY CEILING TYPES. COLOR BY ARCHITECT
<b>(E)</b>	MODEL 61DH-O, STEEL, DOUBLE DEFLECTION, HORZ., PROVIDE W/ OBD.	I	SIDEWALL GRILLE	16X8	SUPPLY	COLOR TO BE DETERMINED BY ARCHITECT
9	MODEL 6145H-O, STEEL, LOUVERED FACE, HORZ., PROVIDE W/ OBD.	I	SIDEWALL GRILLE	24X12	RETURN	COLOR TO BE DETERMINED BY ARCHITECT

HVAC	LEGEND
CEILING LOUVERED SUPPLY DIFFUSER	© SMOKE DETECTOR
CEILING RETURN GRILLE	DUCT TURNS DOWN
CEILING EXHAUST GRILLE/FAN	A DIFFUSER MARK  100 DIFFUSER CFM
THERMOSTAT	<u>EF-1</u> EXHAUST FAN MARK
) RECTANGULAR DUCT	AHU-1 AIR HANDLING UNIT MARK
THE PROPERTY COOL	HP-1 HEAT PUMP MARK
MANUAL VOLUME DAMPER	ONE HOUR RATED PARTITION
TITTITITI DUCT TAP & FLEX	TWO HOUR RATED PARTITION
<b>A</b>	THREE HOUR RATED PARTITION

 $\Theta$ 

ROLESVILLE TOWNE COMMONS BLDG. - 6

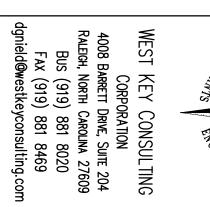
U.S. HWY. 401 NORTH ROLESVILLE, NC

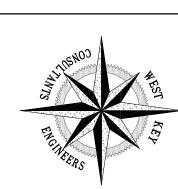
1) PER NORTH CAROLINA MECHANICAL C
 2) BASED ON FIXED SEATING
 3) BASED ON 50% DIVERSITY - INTERMIT

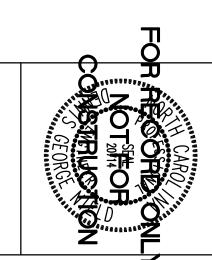
INTERMITTANT OCCUPANCY

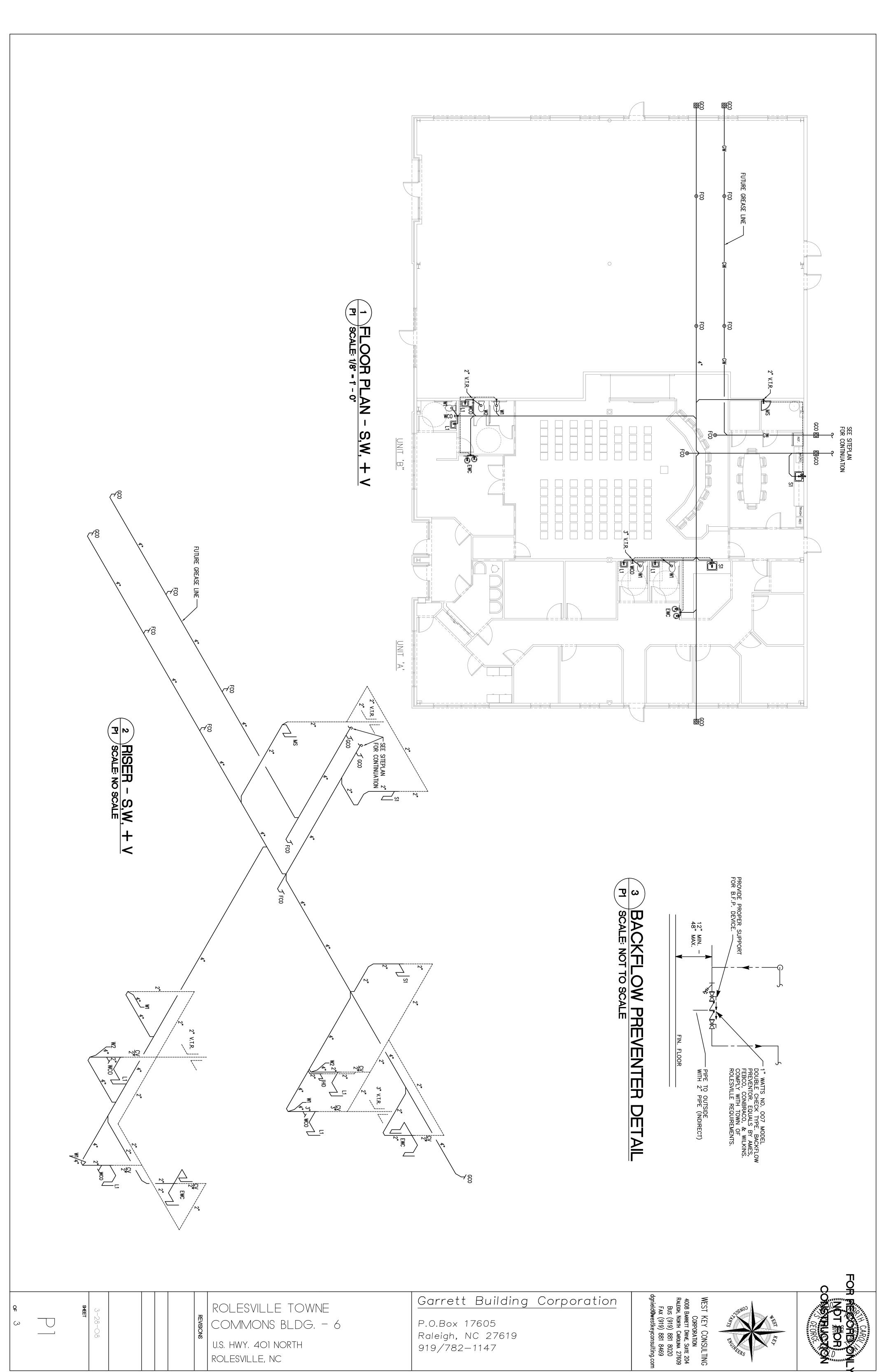
Garrett Building Corporation

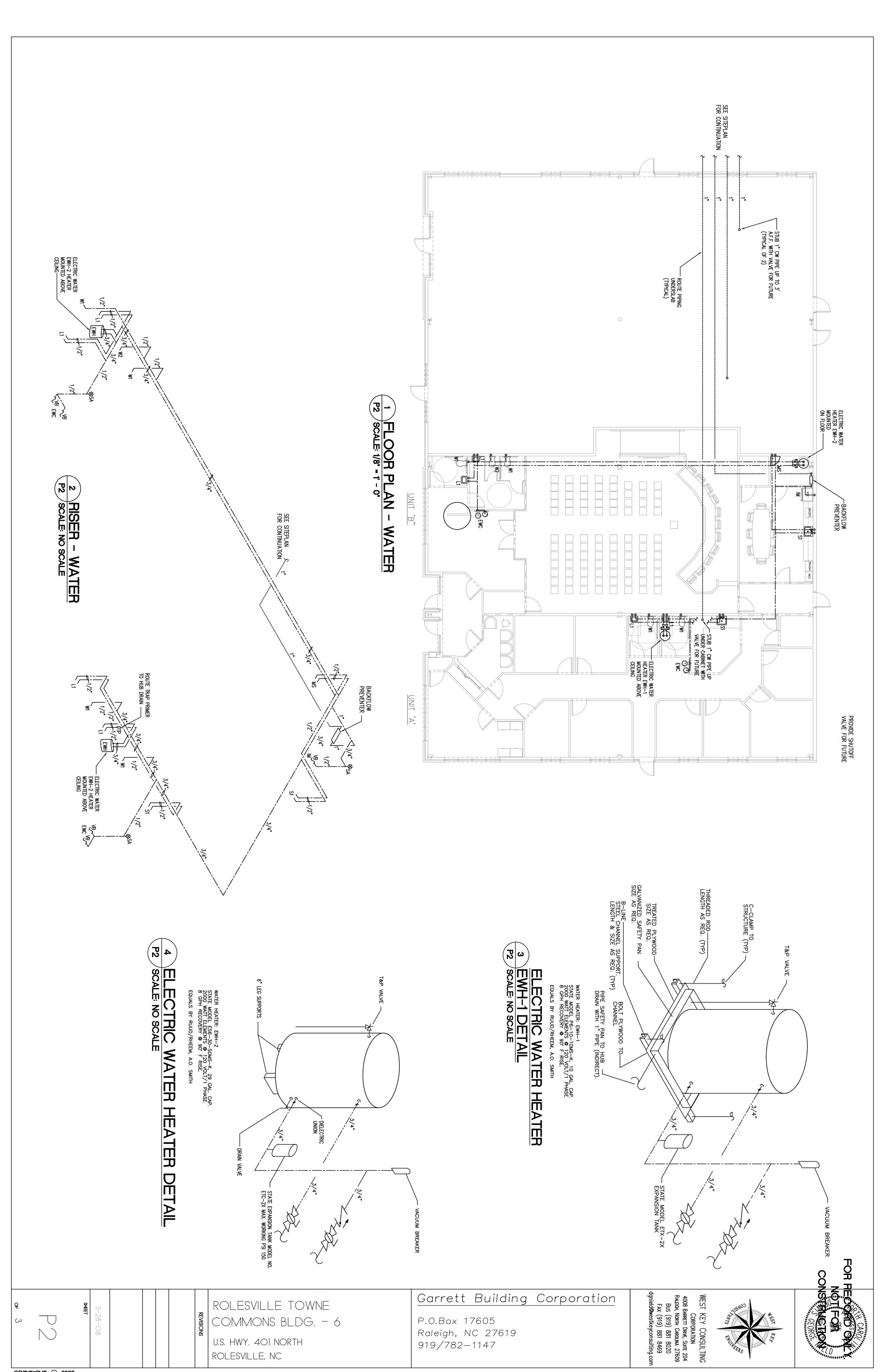
P.O.Box 17605 Raleigh, NC 27619 919/782-1147











## PLUMBING **SPECIFICATIONS:**

2.) ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY ECESSARY OFFSETS, REROUTING, REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION. 1.) THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH 2006 NORTH CAROLINA PLUMBING CODE AND LOCAL PLUMBING INSPECTOR.

3.) THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSET, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING SYSTEM. 4.) THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC.

6.) ALL DOMESTIC WATER PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE. 5.) CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS PRIOR TO BEGINNING WORK.

7.) ALL DOMESTIC WATER PIPING (ABOVE SLAB) SHALL BE TYPE "L" COPPER WITH 95/5 LEAD FREE SOLDER. ALL WATER PIPING (BELOW SLAB) SHALL BE TYPE "K" SOFT COPPER. COMPLY W/ ASTM B-88-88A. 8.) ALL WATER PIPING SHALL BE INSULATED WITH CLOSED CELL (ARMAFLEX) TYPE INSULATION WITH THE FLAME DENSITY RATING NOT EXCEEDING 25 & THE SMOKE DENSITY RATING NOT EXCEEDING 50. THICKNESS FOR COLD WATER PIPING SHALL BE 1" THOUS THICK. THICKNESS FOR HOT WATER & RETURN PIPING SHALL BE 1" THE STANDARD SHALL BE 1" THE STANDAR THICK.

9.) ALL BRANCH LINES SHALL HAVE SHUT-OFF VALVES. ALL DOMESTIC WATER BALL VALVES SHALL BE BRASS BODY. FULL PORT, CHROME PLATED BALL, TEFLON SEATS, 150# WSP, FOR SIZES 1/2" THRU 2". SIZES ABOVE 2" SHALL BE BRONZE GATE VALVE, NRS SOLID DISC, SCREW OVER BONNET, 125# WSP. PROVIDE VALVE HANDLE EXTENSIONS AS REQUIRED FOR INSULATION.

11.) ALL SANITARY SEWER PIPING SHOWN IS BELOW SLAB/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE. 10.) ALL PLUMBING FIXTURES AND KITCHEN EQUIPMENT SHALL HAVE A PISTON TYPE WATER HAMMER ARRESTOR SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS & PDI STANDARDS.

12.) ALL WASTE & VENT PIPING (ABOVE SLAB) SHALL BE PVC-DWV WITH PIPING AND FITTINGS CONFORMING TO ASTM D-2665. 14.) ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY 2006 NORTH CAROLINA PLUMBING CODE & MANUFACTURER'S RECOMMENDATIONS. 15.) ALL PIPING PENETRATIONS THRU NEW/EXISTING WALLS/FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE NEW/EXISTING WALL OR FLOOR. 13.) ALL WASTE & VENT PIPING (BELOW SLAB) SHALL BE PVC-DWV WITH PIPING AND FITTINGS CONFORMING TO ASTM D-2665.

17.) THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDERSLAB PLUMBING PIPING WITH ALL STRUCTURAL FOUNDATIONS. P.C. SHALL COORDINATE ALL UNDERSLAB PLUMBING PIPING ELEVATION INVERTS WITH SITE UTILITY ELEVATION INVERTS. 18.) P.C. SHALL COORDINATE ALL KITCHEN EQUIPMENT REQUIRING PLUMBING CONNECTIONS WITH KITCHEN EQUIPMENT VENDOR. PROVIDE ALL NECESSARY P—TRAPS, SUPPLY STOPS, INDIRECT PIPING, ETC. REQUIRED FOR COMPLETE HOOK—UP OF KITCHEN EQUIPMENT REQUIRING PLUMBING CONNECTIONS. 16.) ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED BY 2006 NORTH CAROLINA PLUMBING CODE .

20.) THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH 2006 NORTH CAROLINA PLUMBING CODE. 19.) THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED AS REQUIRED PER LOCAL AUTHORITY. 21.) ALL VENT THRU THE ROOF PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. P.C. SHALL PROVIDE ALL FLASHING MATERIAL REQUIRED FOR VENT THRU ROOF. ALL VTR'S SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES.

23.) PLUMBING CONTRACTOR SHALL HAVE RECEIVED APPROVED SHOP DRAWINGS FROM THE ENGINEER PRIOR TO BEGINNING NEW WORK. 22.) ALL GAS PIPING AND GAS FLUE TO GAS WATER HEATER BY PLUMBING CONTRACTOR.

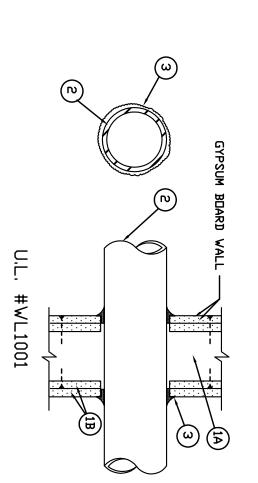
> EWC SN  $\overline{\mathbf{c}}$ 쿠  $\Box$ **%**2 ≦ WATER CLOSE FLR. MTD. SINK
> SINGLE BOWL
> CTR. MTD. ELECTRIC WATE COOLER WATER CLOSE: FLR. MTD. HANDICAP LAVATORY WALL MTD. CORNER MOP 织 1/2" 1/2" 1/2" 1/2" 1/2" 1/2" 1/2" HW WASTE 1/2" 1/2" UMBING 1-1/2" 1-1/2" 1-1/2" Cų ٧, 4, 42 JUST MODEL NO. SL-ADA-2117-A-GR, 304 STAINLESS STEEL, 20 GAUGE, SELF-RIMMING SINGLE BOWL, DIM. 16" x 14" x 6" DEEP, 3 HOLES @ 4" CENTERS.
>
> IRAP & SUPPLIES: McGUIRE NO. 151 CHROME PLATED FORGED BRASS BASKET STRAINER WITH 1-1/2" x 4" TAILPIECE, McGUIRE NO. 8912 17 GA. 1-1/2" P-TRAP AND NIPPLE. McGUIRE NO. 2165 3/8"x12" FLEX RISER ANGLE SUPPLY STOPS.
>
> FAUCET: MOEN MODEL 8710 CHROME PLATED SINGLE-HANDLE FAUCET, 9" SPOUT AND 2.2 GPM AERATOR.
>
> ACCESSORIES: TRUEBRO HANDI-LAV GUARD INSULATION MODEL NO. 101 3-PIECE INTERLOCKING TRAP ASSEMBLY AND 2-PIECE INTERLOCKING HOT WATER ANGLE VALVE ASSEMBLY, AND NYLON TYPE FASTENERS.
>
> ACORN "TERRAZO-WARE" TCR28 28" PRECAST TERRAZZO ROUNDED CORNER MOP SERVICE BASIN.
>
> FAUCET: FIAT 830-AA SERVICE FAUCET WITH 3/4" HOSE THREAD END AND BUCKET HOOK AND VACUUM BREAKER.
>
> STRAINER: STAINLESS STEEL STRAINER BY FIAT. CRANE "WESTMONT" #1-320 VITREOUS CHINA 20"x18" LAVATORY WITH 4" FAUCET CENTERS.
>
> IRAP & SUPPLIES: MCGUIRE NO. 8902 17 GA. 1 1/4" X 1 1/2" P-TRAP AND NIPPLE. McGUIRE NO. 2165 ANGLE SUPPLY STOPS. FAUCET: MOEN NO. 8425 SINGLE HANDLE WITH GRID WASTE ASSEMBLY AND 0.5 GPM FLOW RESTRICTOR. ACCESSORIES: TRUEBRO HANDI-LAV GUARD INSULATION MODEL NO. 101 3-PIECE INTERLOCKING TRAP ASSEMBLY AND 2-PIECE INTERLOCKING HOT WATER ANGLE VALVE ASSEMBLY, AND NYLON TYPE FASTENERS. PRECISION PRODUCTS MODEL PR-500 ELKAY MODEL EZSTLR8C TWO-LEVEL WHEEL CHAIR TYPE WALL MOUNTED WATER COOLER WITH HERMETICALLY SEALED COOLED REFRIGERATING UNIT, WITH ELECTRIC PUSH BUTTON ON FRONT AND SIDE, COLORED VINYL COVERED STEEL SKIRT, AND STAINLESS STEEL HOOD-RECEPTOR. MOUNT HIGHEST SPOUT AT 36" A.F.F. CRANE "PERFECT FIT" #C-31232, 1.6 GPF WHITE VITREOUS CHINA ELONGATED BOWL WITH SIPHON JET FLUSHING, WITH FRONT TRIP LEVER, 10" ROUGH-IN, 15" HIGH, & 2 BOLT CAPS. SEAT: BEMIS MODEL 1955C ANTI MICROBIAL HEAVY DUTY ELONGATED WHITE OPEN FRONT SEAT. YALVE: McGUIRE MODEL 2166. 3/8" x 12" FLEX RISER ANGLE CLOSET SUPPLY WITH STOP. CRANE "HYMONT" #C-31002, 1.6 GPF WHITE VITREOUS CHINA ELONGATED BOWL WITH SIPHON JET FLUSHING, WITH SIDE TRIP LEVER, 12" ROUGH-IN, 17" HIGH, & 2 BOLT CAPS. SEAT: BEMIS MODEL 1955C ANTI MICROBIAL HEAVY DUTY ELONGATED WHITE OPEN FRONT SEAT. VALVE: McGUIRE MODEL 2166. 3/8" x 12" FLEX RISER ANGLE CLOSET SUPPLY WITH STOP. MOUNT SIDE TRIP LEVER ON WIDE SIDE OF TOILET STALL. FIXTURE  $\mathcal{O}$ AND QUIPMENT ₽ND ₽

EQUAL	
FIXTURES	
ВΥ	
OTHERS	
EQUAL FIXTURES BY OTHERS ACCEPTABLE. COORDINATE WITH (	
COORDINATE	
₩Ţ	
OWNER	

æ	SA	WCO	FCO	FD-A	FS-A	SYMBOL	
ZURN MODEL BFP-8 VACUUM BREAKER TO MEET ALL REQUIREMENTS OF ASSE 1011 AS REQUIRED BY 2002 NCSBC, PLUMBING CODE, SECTION 608.13.6.	WATTS SERIES 15 WATER HAMMER ARRESTOR TO MEET ALL REQUIREMENTS OF ASSE 1010 AS REQUIRED BY 2002 NCSBC, PLUMBING CODE, SECTION 604.9.	ZURN ZN-1400 "LEVELTROL" ADJUSTABLE FLOOR CLEANOUT, DURACOATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW.	ZURN ZN-415 DURACOATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEBRANE CLAMP AND ADJUSTABLE COLLAR WITH 6" TYPE" B" POLISHED NICKEL BRONZE STRAINER. AND ROUND SCORIATED POLISHED NICKEL BRONZE TOP ADJUSTABLE TO FINISH FLOOR.	ZURN ZN-415 DURACOATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEBRANE CLAMP AND ADJUSTABLE COLLAR WITH 6" TYPE "B" POLISHED NICKEL BRONZE STRAINER.	PLASTIC ODDITIES PFS SERIES 12"x12"x10" DEEP, PVC, 1/2 GRATE, WITH PLASTIC, REMOVABLE SECONDARY STRAINER.	SPECIFICATION	PLUMBING ACCESSORIES

-0.0 GT N		ABOVE SLAB: TYPE "L" ANNEALED COPPER WITH 95/5 SOLDER JOINTS.
1 0 1 0	17.3	BELOW SLAB: TYPE "K" SOFT COPPER WITH NO JOINTS BELOW SLAB
		DOMESTIC WATER SYSTEM
4,	31.0	BELOW SLAB: SCHEDULE 40 PVC-DWV. PIPING & FITTINGS SHALL BE IN ACCORDANCE WITH ASTM D2665
		WASTE AND VENT SYSTEM
MAIN SIZE	FIXTURE UNITS	SYSTEM & MATERIAL
	<b>JMARY</b>	PLUMBING SUMMARY

PIPING 먪 USED Z LIEU 유



Wall Ass constru Wall or constru A. Studs steel ch nom. 2 lo 1-3/8 in. B. Wallbo The gyp: shall be Director f either wood studs (max 2 hr fire rated assemblies) or consist of nom, 2 by 4 in, lumber spaced 16 in, OC with cross braces, Steel studs to be min, 3-5/8 in, wide by 4 in OC rated gypsum wallboard/stud wall assembly shall be manner described in the individual U300 or U400 Series Resistance Directory and shall include the following

2. Pipe o diam. (or sr Class 50 (c in. diam. (or nom. 1 in. (or max. F Ratilin. diam. max) conduit is stud cavit. 3. FIII, Void space between applied to symmetrical dependent the following fixed the fallowing as tabulat ller) Schedule 10 (or heavier) steel pipe, nom. 12 in. ast iron soil pipe, nom. 12 in. diam. (or smaller) e, nom. 6 in. diam. (or smaller) steel conduit, nom. 4 whing or Type L or (or heavier) copper tubing or /hen copper pipe or flexible steel conduit is used, the steel pipe or flexible steel conduit is used, the steel pipe or flexible steel conduit is used, the steel pipe or flexible steel conduit is used, the steel pipe or flexible steel conduit is used, the steel pipe or flexible steel conduit is used.

(교|-FOR FRAMED WALL ONLY
1,2,3, OR 4 HOUR PENETRATION
FIRESTOP DETAIL
SCALE: NTS

Minnesota Mining & Mfg. Co. – Types CP-25 S/L, CP-25 N/S, CP-25 WB, (NOTE: L Rating apply only when Type CP-25 WB+ caulk is used). \*Bearing the UL Classification Marking

When copper pipe is used, T Rating is 0 h 0 to 1-1/2 in. annular space applies only when Type

0 Nox On C

0 to 3/16
1/4 to 1/2
0 to 1/4
0 to 1-1/2#
1/4 to 1/2
3/16 to 3/8

1 \( \omega \) 1 \( \omega \) 0 \( \

0+, 1 or 0 or 4



ROLESVILLE TOWNE COMMONS BLDG. - 6

U.S. HWY. 401 NORTH ROLESVILLE, NC

Garrett Building Corporation

EOCV BOCV

BEGINNING OF

CIRCUIT

VENT

3 HOUR RATED BARRIER

TO EXISTING

RATED BARRIER RATED BARRIER

INV P.C.

FΠ

₽.F

ABOVE FINISH FLOOR

DRAIN -

CLEANOUT IN FLOOR OR SLAB (C.O.F.F.)

CLEANOUT IN GROUND (C.O.F.G.)

SATE VALVE IN HORIZONTAL

</l></l></l></l></l></

ţļ <sup>ţ</sup>

ELL TURNS DOWN
CHECK VALVE

TURNS UP

HOT WATER RETURN PIPING ( HWR

BALL VALVE

Q

<.T.R.

VENT THROUGH ROOF

COMMON VENT

CIRCUIT VENT

LUMBING CONTRACTOR

ELEVATION

REEZE PROOF

DRAIN

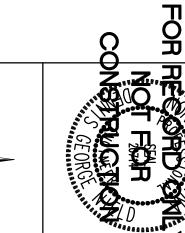
HIBB HIBB

<u>C</u>

P.O.Box 17605 Raleigh, NC 27619 919/782-1147

CORPORATION
4008 BARRETT DRIVE, SUITE 204
RALEIGH, NORTH CAROLINA 27609
BUS (919) 881 8020
FAX (919) 881 8469
dgnield@westkevr~~~~~ WEST KEY CONSULTING





LUMBING

<u>LEGEND</u>

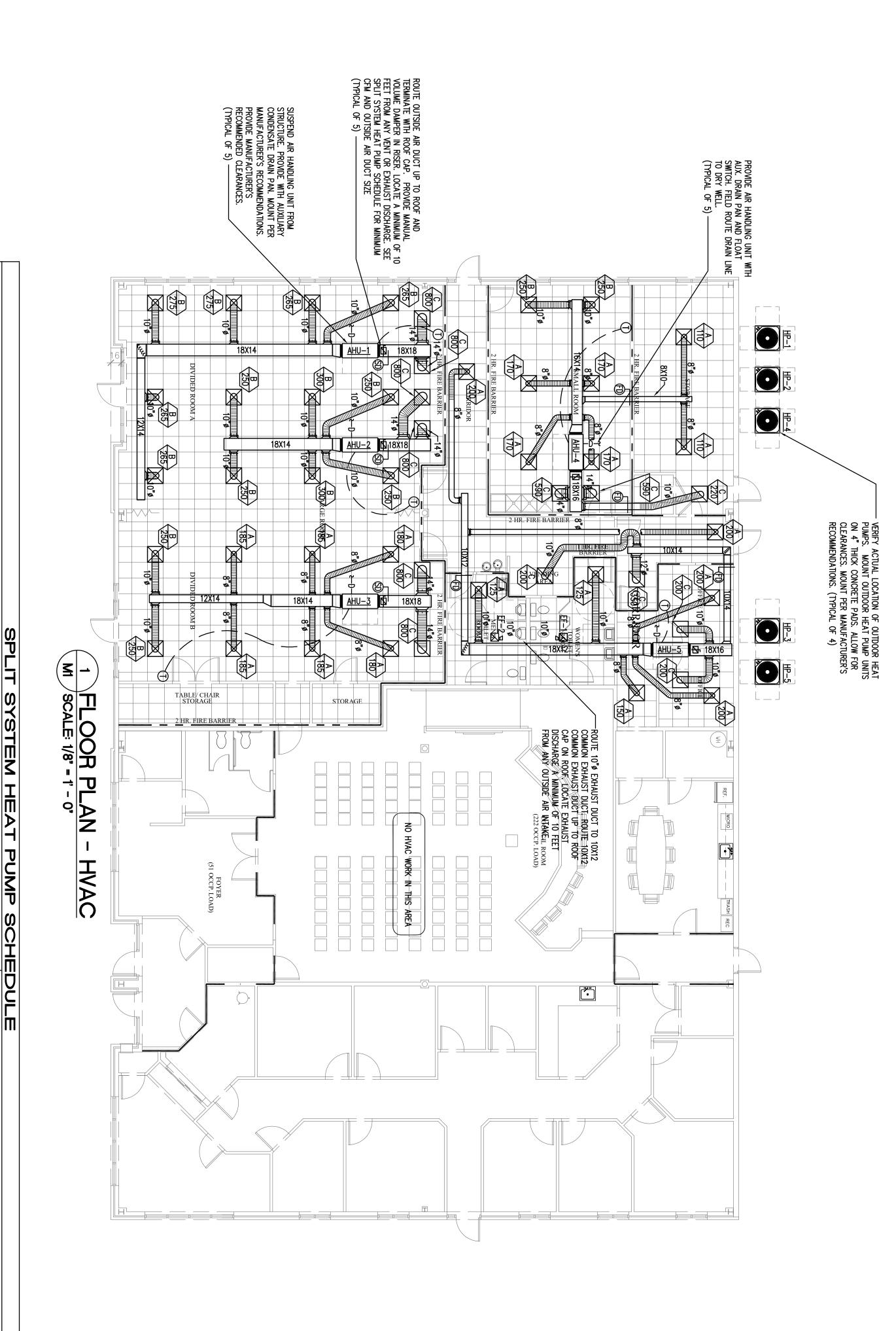
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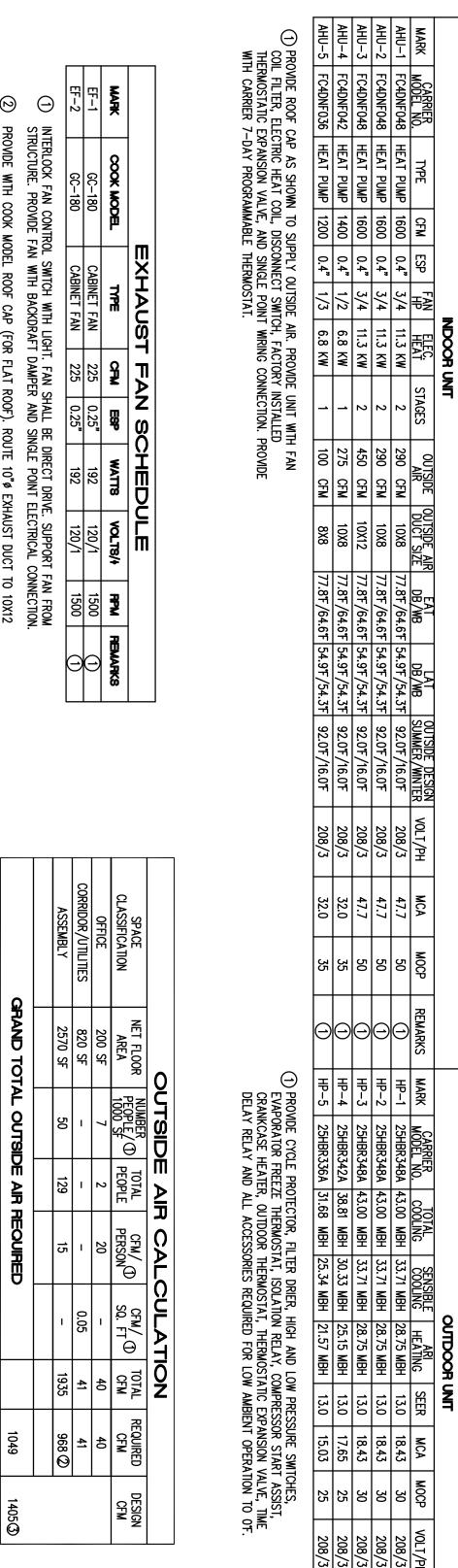
**ABBREVIATIONS** 

SANITARY SEWER PIPING

VENT PIPING ( V )

PIPING





 $\Theta$ 

(<u>P</u>)

PROVIDE WITH COOK MODEL ROOF CAP (FOR FLAT ROOF). ROUTE 10"0 EXHAUST DUCT TO 10X12 COMMON EXHAUST DUCT. ROUTE 10X12 COMMON EXHAUST DUCT UP TO ROOF CAP ON ROOF AS SHOWN ON DRAWINGS.

PER NORTH CAROLINA MECHANICAL CODE - CHAPTER 4 - VENTILATION
 BASED ON 50% DIVERSITY - INTERMITTANT OCCUPANCY
 ASSEMBLY AREA HVAC CALCULATIONS BASED ON 15 SF/PERSON PER OWNERS REQUEST (2570 SQ.FT. / 15 PPL/SQ.FT. = 172 PPL)

1049

1405③

HVAC FLOORPLAN Project No. 0882

wille, North Carolina

0

AS NOTED

Prowing No.

	AIR DIS	STRIBU	AIR DISTRIBUTION SCHEDULE	Ĭ D D	TE	
MARK	NAILOR MODEL	PANEL SIZE	JAKI	SIZE	TYPE	REMARKS
<b>⊗</b>	NAILOR MODEL RNS, STEEL, LOUVERED FACE, ROUND NECK	24X24	LAY-IN CEILING	8 <b>"</b> %	SUPPLY	VERIFY CEILING TYPES, COLOR BY ARCHITECT
<b>®</b>	NAILOR MODEL RNS, STEEL, LOUVERED FACE, ROUND NECK	24X24	24X24 LAY-IN CEILING	10"ø	SUPPLY	VERIFY CEILING TYPES, COLOR BY ARCHITECT
0	NAILOR MODEL 4360, STEEL, PERFORATED, PROVIDE W/ SQR. TO RND. TRANS.	24X24	LAY-IN CEILING	22X22	RETURN	Verify Ceiling Types, color by Architect

HVAC	LEGEND
CEILING LOUVERED SUPPLY DIFFUSER	S) SMOKE DETECTOR
CEILING RETURN GRILLE	DUCT TURNS DOWN
CEILING EXHAUST GRILLE/FAN	A DIFFUSER MARK  100 DIFFUSER CFM
THERMOSTAT	<u>EF-1</u> EXHAUST FAN MARK
) RECTANGULAR DUCT	AHU-1 AIR HANDLING UNIT MARK
	HP-1 HEAT PUMP MARK
——————————————————————————————————————	ONE HOUR RATED PARTITION/WALL/BARRIER
TITTITT DUCT TAP & FLEX	TWO HOUR RATED PARTITION/WALL/BARRIER
	THREE HOUR RATED PARTITION/WALL/BARRIER



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dgnield@westkeyconsulting.com

TRUCTION 9/17/08

To the best of my knowledge and belief, the design of this building complies with mechanical system and equipment requirements of the North Carolina State Energy Code.

SIGNED DENNIS G. NIELD
NAME: PROFESSIONAL ENGINEER

DESIGNER STATEMENT:

Equipment schedules with motors,

Multispeed motors are used on this project and are included in the efficiency rating of the unit. See drawings for efficien

Boller - Not applicable to this project.

Chiller - Not applicable to this project.

Equipment efficiencies

Efficiencies are listed on equipment schedules

Mechanical Spacing Conditioning System
Unitary - Tenant space is served by one (5)
split system heat pumps with electric
strip auxillary heating. Efficiencies and
outputs for heating and cooling are
listed in the schedules - See drawings.

Building Cooling Load Tenant Space - 194,627 BTU/hr

Garrett Building Corporation 2016 South Main Street Suite 702 Make Forest, NC 27587 Phone: (919) 782-1147

Interior Design Conditions winter dry bulb 70°F summer dry bulb 75°F relative humidity 50%

uilding Heating Load

Tenant Space - 134,457 BTU/hr

Exterior Design Conditions

winter dry bulb summer dry bulb summer wet bulb

Thermal Zone

Prescriptive X

Energy Cost Budget

CORD ONLY.

MECHANICAL SYSTEMS AND EQUIPMENT

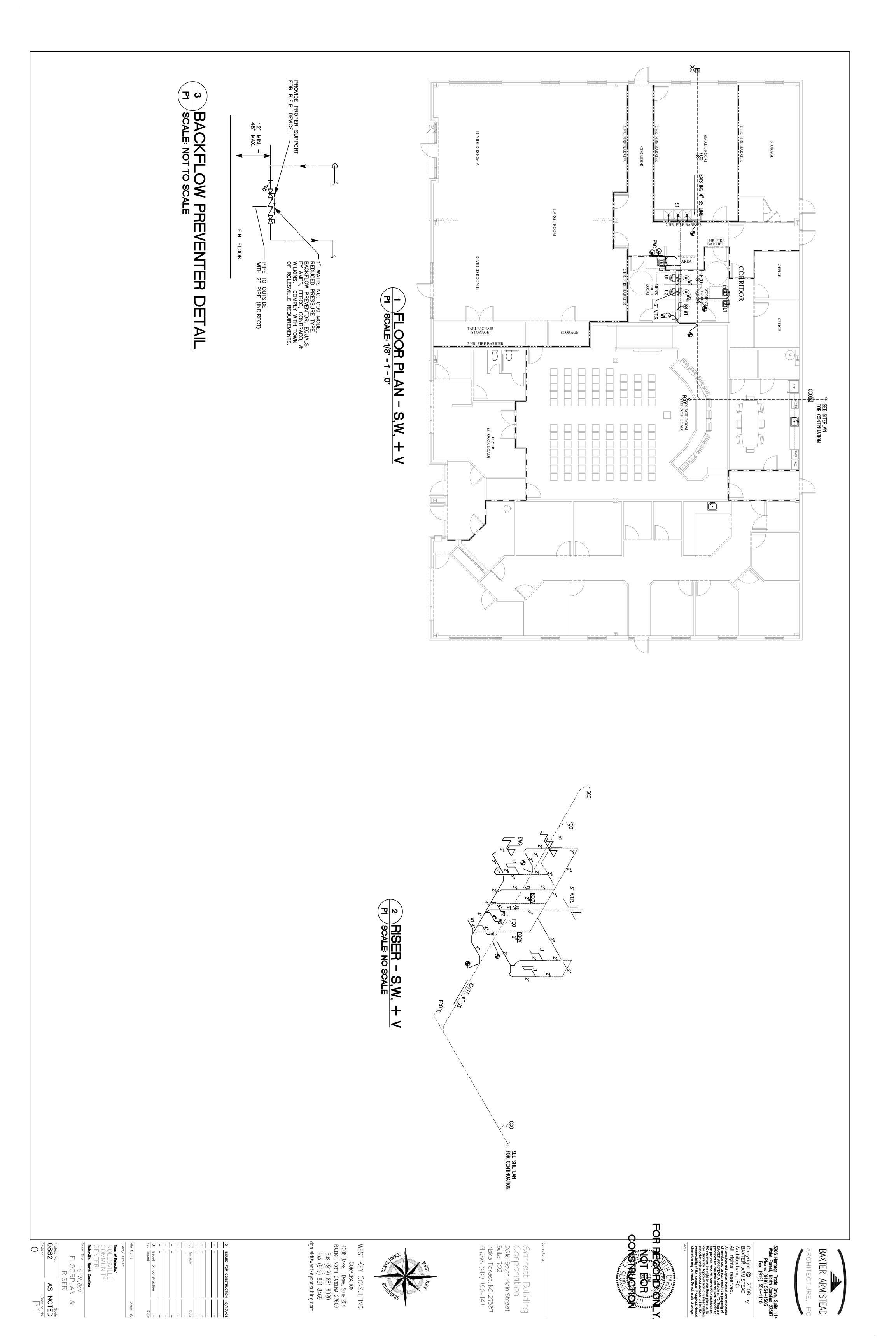
METHOD OF COMPLIANCE:

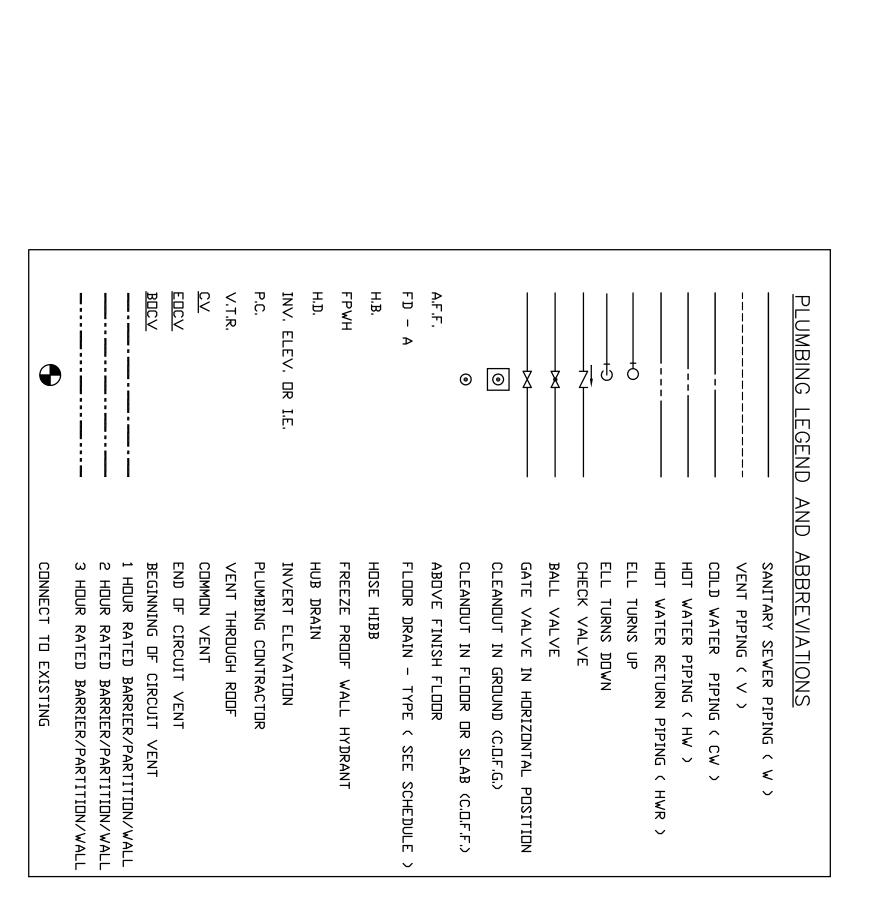
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3206 Heritage Trade Drive, Suite 114 Wake Forest, North Carolina 27587 Phone: (919) 554-1505 Fax: (919) 554-1110

BAXTER ARMISTEAD CHITECTURE,







SYMBOL

FD-A

FCO

ZURN ZN-415 DURACOATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEBRANE CLAMP AND ADJUSTABLE COLLAR WITH 6" TYPE" B" POLISHED NICKEL BRONZE STRAINER. AND ROUND SCORIATED POLISHED NICKEL BRONZE TOP ADJUSTABLE TO FINISH FLOOR.

ZURN ZN-415 DURACOATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEBRANE CLAMP AND ADJUSTABLE COLLAR WITH 6" TYPE "B" POLISHED NICKEL BRONZE STRAINER.

€

ZURN MODEL BFP-8 VACUUM BREAKER TO MEET ALL REQUIREMENTS 2002 NCSBC, PLUMBING CODE, SECTION 608.13.6.

Project No. **0882** 

esville, North Carolina

\*\* Title WATER

FLOORPLAN &

RISER

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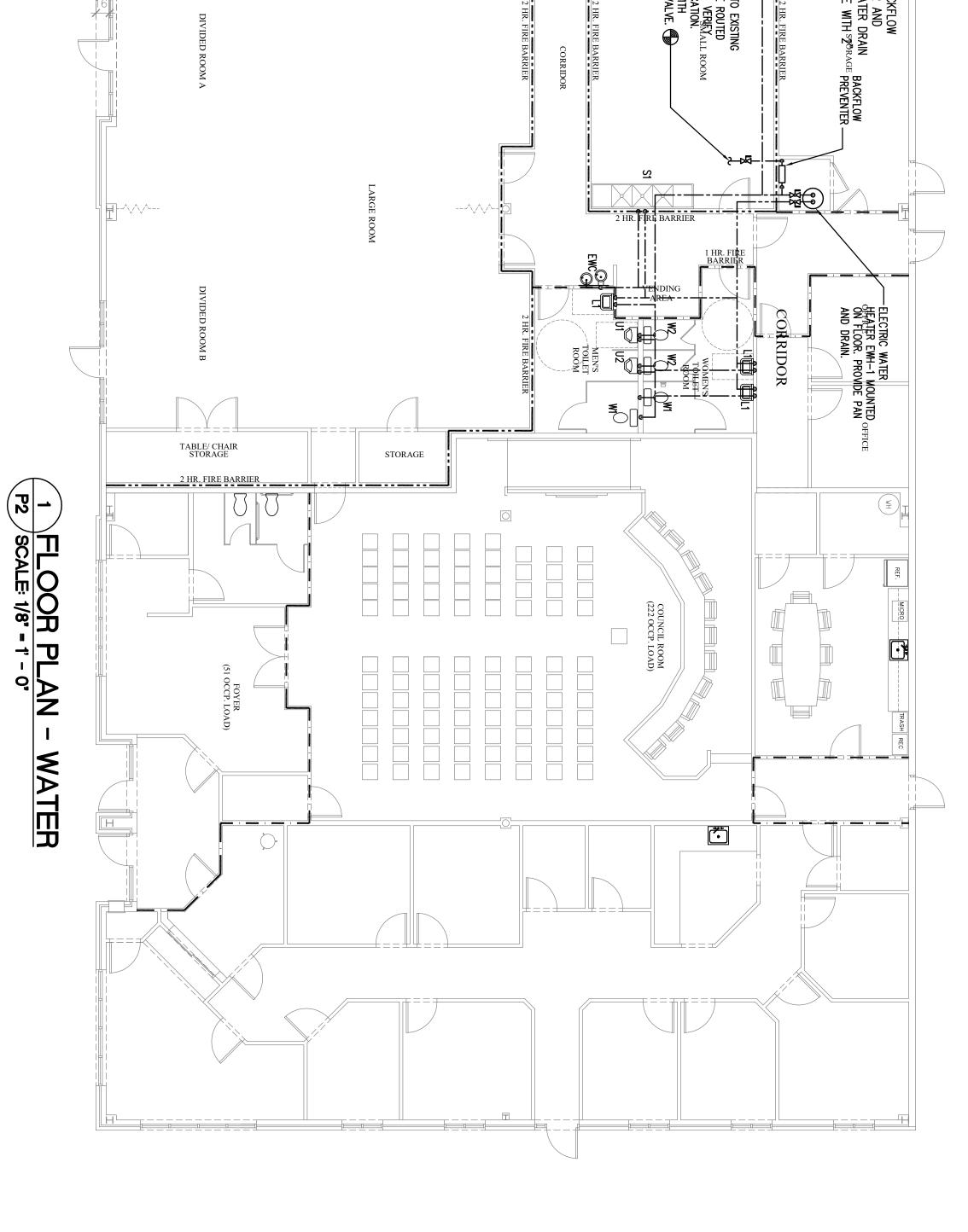
AS NOTED

Prowing No.

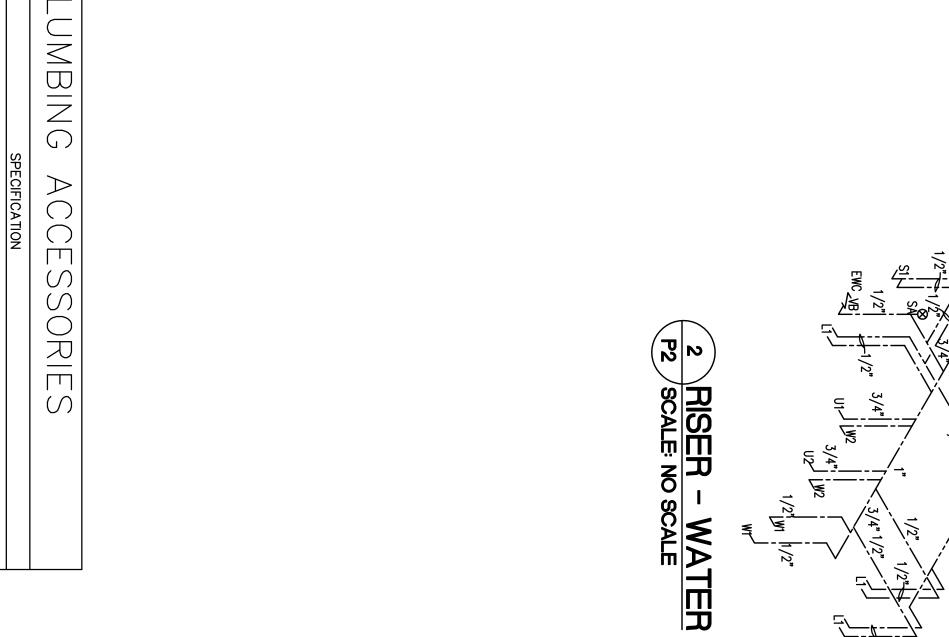
WATTS SERIES 15 WATER HAMMER ARRESTOR TO MEET ALL REQUIREMENTS OF ASSE 1010 AS REQUIRED BY 2002 NCSBC, PLUMBING CODE, SECTION 604.9.

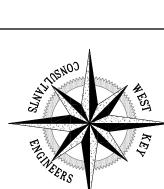
ZURN ZN-1400 "LEVELTROL" ADJUSTABLE FLOOR CLEANOUT, DURACOATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW.

SA









Garrett Building Corporation 2016 South Main Street Suite 702 Make Forest, NC 27587 Phone: (919) 782-1147

CONNECT TO EXISTING
1" CW LINE ROUTED
OVERHEAD. VERIFY
EXACT LOCATION.
PROVIDE WITH
SHUTOFF VALVE.

-ELECTRIC WATER HEATER EWH-1 MOUNTED ON FLOOR

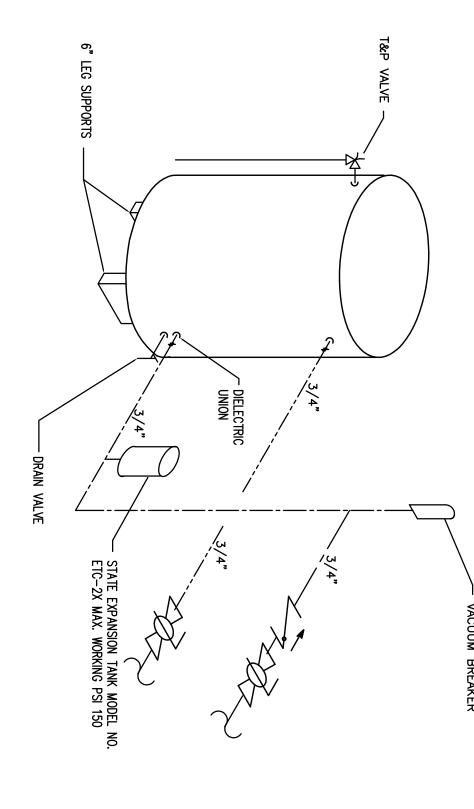
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		l PIPE SE	RVICE AN	PIPE SERVICE AND CONN. SIZE	
MARK	DESCRIPTION	Q	¥	WASTE	FIXTURE SPECIFICATIONS
W1	WATER CLOSET FLR. MTD. HANDICAP	1/2"		4 <sub>a</sub>	CRANE "HYMONT" #C-31002, 1.6 GPF WHITE VITREOUS CHINA ELONGATED BOWL WITH SIDE TRIP LEVER, 12" ROUGH-IN, 17" HIGH, & 2 BOLT CAPS.  SEAT: BEMIS MODEL 1955C ANTI MICROBIAL HEAVY DUTY ELONGATED WHITE OPEN FRONT SEAT.  VALVE: McGUIRE MODEL 2166. 3/8" x 12" FLEX RISER ANGLE CLOSET SUPPLY WITH STOP.  MOUNT SIDE TRIP LEVER ON WIDE SIDE OF TOILET STALL.
W2	WATER CLOSET FLR. MTD.	1/2"		4,	CRANE "PERFECT FIT" $\#C-31232$ , 1.6 GPF WHITE VITREOUS CHINA ELONGATED BOWL WITH SIPHON JET FLUSHING, WITH FRONT TRIP LEVER, 10" ROUGH-IN, 15" HIGH, & 2 BOLT CAPS.  SEAT: BEMIS MODEL 1955C ANTI MICROBIAL HEAVY DUTY ELONGATED WHITE OPEN FRONT SEAT.  VALVE: McGUIRE MODEL 2166. $3/8$ " x 12" FLEX RISER ANGLE CLOSET SUPPLY WITH STOP.
L1	LAVATORY WALL MTD.	1/2" 1/2"	1/2"	1-1/2"	CRANE "WESTMONT" #1-320 VITREOUS CHINA 20"x18" LAVATORY WITH 4" FAUCET CENTERS.  TRAP & SUPPLIES: MCGUIRE NO. 8902 17 GA. 1 1/4" X 1 1/2" P-TRAP AND NIPPLE. McGUIRE NO. 2165 ANGLE SUPPLY STOPS. FAUCET: MOEN NO. 8425 SINGLE HANDLE WITH GRID WASTE ASSEMBLY AND 0.5 GPM FLOW RESTRICTOR.  ACCESSORIES: TRUEBRO HANDI-LAV GUARD INSULATION MODEL NO. 101 3-PIECE INTERLOCKING TRAP ASSEMBLY AND 2-PIECE INTERLOCKING HOT WATER ANGLE VALVE ASSEMBLY, AND NYLON TYPE FASTENERS.
U1	URINAL WALL MTD. HANDICAPED	3/4"		2"	CRANE "BEDFORD" C-7121 1.0 GPF WHITE VITREOUS CHINA URINAL, SIPHON JET FLUSHING, AND 3/4" TOP SPUD. MOUNT URINAL 17" A.F.F. TO MEET ADA REQUIREMENTS. VALVE: SLOAN REGAL MODEL 186-1-YB EXPOSED DIAPHRAGM TYPE, WITH 1.0 GPF.
U2	URINAL WALL MTD.	3/4"		2"	CRANE "BEDFORD" C-7121 1.0 GPF WHITE VITREOUS CHINA URINAL, SIPHON JET FLUSHING, AND 3/4" TOP SPUD. MOUNT URINAL 24" A.F.F. VALVE: SLOAN REGAL MODEL 186-1-YB EXPOSED DIAPHRAGM TYPE, WITH 1.0 GPF.
S1	SINK 3-COMPARTMENT	1/2"	1/2"	2"	3 COMPARTMENT SINK BY OWNER
EWC	ELECTRIC WATER COOLER	1/2"		2"	ELKAY MODEL EZSTLR8C TWO-LEVEL WHEEL CHAIR TYPE WALL MOUNTED WATER COOLER WITH HERMETICALLY SEALED AND AIR COOLED REFRIGERATING UNIT, WITH ELECTRIC PUSH BUTTON ON FRONT AND SIDE, COLORED VINYL COVERED STEEL SKIRT, AND STAINLESS STEEL HOOD-RECEPTOR. MOUNT HIGHEST SPOUT AT 36" A.F.F.



HEATER: EWH-2

MODEL ES6-30-SOMS-K, 29 GAL. CAP
WATT ELEMENTS @ 120 VOLT/1 PHASE
H RECOVERY @ 90° F RISE.

QUALS BY RUUD/RHEEM, A.O. SMITH ROVIDE WITH DRAIN PAN. DRIAN TO OUTSIDE ELECTRIC SCALE NO SCALE WATER ATE D

1.) THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH 2006 NORTH CAROLINA PLUMBING CODE AND LOCAL PLUMBING INSPECTOR. 6.) ALL DOMESTIC WATER PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.

10.) ALL PLUMBING FIXTURES AND KITCHEN EQUIPMENT SHALL HAVE A PISTON TYPE WATER HAMMER ARRESTOR SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS & PDI STANDARDS. SANITARY SEWER PIPING SHOWN IS BELOW SLAB/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.

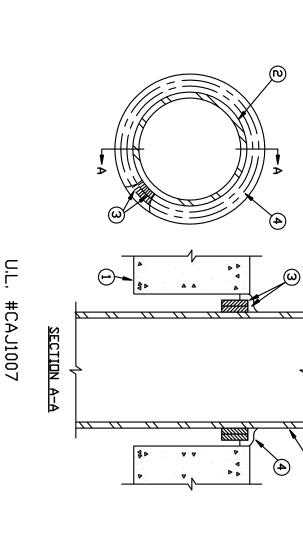
WASTE & VENT PIPING (BELOW SLAB) SHALL BE PVC-DWV WITH PIPING AND FITTINGS CONFORMING -2665. REQUIRED BY 2006 NORTH CAROLINA PLUMBING

15.) ALL PIPING PENETRATIONS THRU NEW/EXISTING WALLS/FLOORS SHALL BE SEALED TO EQUAL THE RATING THE NEW/EXISTING WALL OR FLOOR. 유

16.) ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED BY 2006 NORTH CAROLINA PLUMBING CODE 17.) THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDERSLAB PLUMBING PIPING WITH ALL STRUCTURAL FOUNDATIONS. P.C. SHALL COORDINATE ALL UNDERSLAB PLUMBING PIPING ELEVATION INVERTS WITH SITE UTILITY ELEVATION INVERTS.

19.) THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED AS REQUIRED PER LOCAL AUTHORITY.

22.) ALL GAS PIPING AND GAS FLUE TO GAS WATER HEATER BY PLUMBING CONTRACTOR.



<u>or Wall Assembly</u> - Lightweight or normal weight (100–150 pcf) concrete. Min, thickness of concrete floor or wall is 4–1/2 in, for 2 and 3 hr F Ratings and 5–1/2 in, for 4 hr F Rating. Wall may also be constructed of any UL d Concrete Blocks, Max, diam, of circular opening is 13–1/2 in, e Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers,

2. Steel content of the content of t

pe or Conduit - Nom. 12 in. diam. (or smaller) Schedule 10 (or heavier) steel pipe, nom. 6 in. diam. (or smaller) it or nom. 4 in. diam. (or smaller) steel EMT. Max. one pipe or conduit per opening, centered in opening. Min. petween pipe or conduit and sides of through opening is 1/4 in. Max. clearance between pipe or conduit and rough opening is 1-3/4 in, for 2 hr F Rating and 3/4 in. for 3 and 4 hr F Ratings. Pipe or conduit to be orted on both sides of floor or wall assembly.

Or Cavity Materials - Wrap Strip - Nom. 1/4 in. thick intumescent elastomeric material faced on one side with sposed) until ID of wrap strip is equal to or max. 3/16 in. less than ID of circular through opening. Wrap strip and with steel tie wire or pressure-sensitive tape and slid into through opening such that the top edge of the size recessed 1/4 in. from top surface of floor or, in wall assembles, such that the wrap strip(s) is centered thickness. For the 4 hr F Rating, nom 2 in. wide strip(s) wrapped around pipe/conduit (foil side exposed) on the floor or wall assembly until ID of wrap strip is equal to or max 3/16 in. less than ID of circular through opening on each side strip tightly bound with steel tie wire or pressure-sensitive tape and slid into through opening on each side wall assembly such that the exposed edges are recessed 1/4 in. from the floor or wall surfaces.

the UL Classi

ı Marking ota Mining & Mfg.

PLUMBING

SPECIFICATIONS:

PLUMBING

FIXTURES

AND

EQUIPMENT

2.) ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY ECESSARY OFFSETS, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION. 5.) CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER PRIOR TO BEGINNING WORK. 3.) THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSET, OR A COMPLETE WORKING PLUMBING SYSTEM. 4.) THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, 48 HOURS

7.) ALL DOMESTIC WATER PIPING (ABOVE SLAB) SHALL BE TYPE "L" COPPER WITH 95/5 LEAD FREE SOLDER. ABOVE SLAB, OUTSIDE OF PLENUM SPACES, PEX PIPING IS ACCEPTABLE. ALL WATER PIPING (BELOW SLAB) SHALL BE TYPE "K" SOFT COPPER. COMPLY W/ ASTM B-88-88A. 8.) ALL WATER PIPING SHALL BE INSULATED WITH CLOSED CELL (ARMAFLEX) TYPE INSULATION WITH THE FLAME ENSITY RATING NOT EXCEEDING 25 & THE SMOKE DENSITY RATING NOT EXCEEDING 50. THICKNESS FOR COLD ATER PIPING SHALL BE 1/2" THICK. THICKNESS FOR HOT WATER & RETURN PIPING SHALL BE 1" THICK.

9.) ALL BRANCH LINES SHALL HAVE SHUT-OFF VALVES. ALL DOMESTIC WATER BALL VALVES SHALL BE BRASS 30DY. FULL PORT, CHROME PLATED BALL, TEFLON SEATS, 150# WSP, FOR SIZES 1/2" THRU 2". SIZES ABOVE 2" SHALL BE BRONZE GATE VALVE, NRS SOLID DISC, SCREW OVER BONNET, 125# WSP. PROVIDE VALVE 14NDLE EXTENSIONS AS REQUIRED FOR INSULATION.

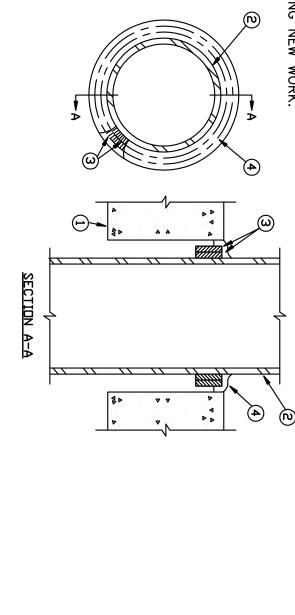
12.) ALL WASTE & VENT PIPING (ABOVE SLAB) SHALL BE PVC-DWV WITH PIPING AND FITTINGS CONFORMING TO ASTM D-2665. PLENUM SPACE WASTE & VENT PIPING (ABOVE SLAB) SHALL BE SERVICE WEIGHT CAST IRON WITH NO-HUB FITTINGS CONFORMING TO CISPI 301-90. JOINTS SHALL BE ONE-PIECE NEOPRENE GASKET WITH STAINLESS STEEL BAND AND BOLTS CONFORMING TO ASTM C564-85.

14.) ALL PIPING SYSTEMS SHALL BE SUPPORTED AS MANUFACTURER'S RECOMMENDATIONS.

18.) P.C. SHALL COORDINATE ALL KITCHEN EQUIPMENT REQUIRING PLUMBING CONNECTIONS WITH KITCHEN EQUIPMENT VENDOR. PROVIDE ALL NECESSARY P—TRAPS, SUPPLY STOPS, INDIRECT PIPING, ETC. REQUIRED FOR COMPLETE HOOK—UP OF KITCHEN EQUIPMENT REQUIRING PLUMBING CONNECTIONS.

21.) ALL VENT THRU THE ROOF PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND SHALL BE CONCEALED BEHIND ROOF RIDGE WHERE POSSIBLE. P.C. SHALL PROVIDE ALL FLASHING MATERIAL REQUIRED FOR VENT THRU ROOF. ALL VTR'S SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES. 20.) THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH 2006 NORTH CAROLINA PLUMBING CODE.

23.) PLUMBING CONTRACTOR SHALL HAVE RECEIVED BEGINNING NEW WORK. APPROVED SHOP DRAWINGS FROM THE ENGINEER PRIOR TO

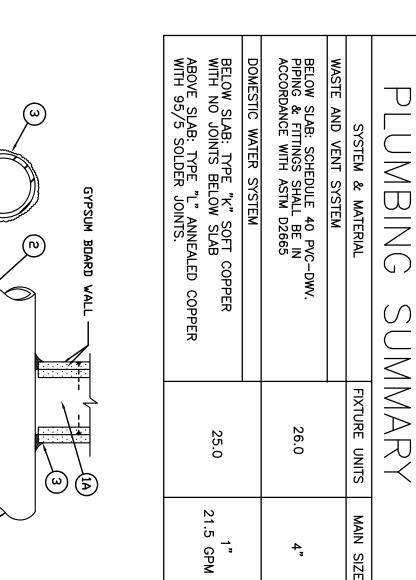


<u>Void Or Cavity Materials\*</u> - Caulk - Nom 1/4 in. thickness of caulk to be applied to the exposed edge(s) of the wrap d to fill all voids between the pipe/conduit and the periphery of the through opening. For 2 and 3 hr F Rating in semblies, caulk to be installed flush with top surface of floor. For wall assemblies and for the 4 hr F Rating in

4. Fill. \
strip and
floor as:
floor as: - Types CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 only when Type CP-25 WB+ caulk is used.)

CMU WALLS AND FLOORS ONLY
2,3 OR 4 HOUR PENETRATION FIRESTOP
SCALE: NONE OORS

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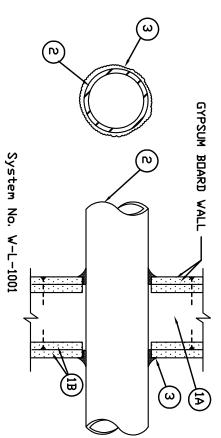
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BAXTER ARMISTEAD

HITECTURE,



tings - 1, 2, 3 and 4 Hr (See Items 2 and 3) Ratings - 0, 1, 2, 3, and 4 Hr (See Item 3) Rating At Amblent - less than 1 CFM/sq ft Rating At 400 F - less than 1 CFM/sq ft

June 15,

2005

1. <u>Wall Assembly</u> – The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. <u>Studs</u> – Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in, (51 by 102 mm) lumber spaced 16 in, (406 mm) OC with nom 2 by 4 in, (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in, (92 mm) wide by 1-3/8 in, (35 mm) deep channels spaced max 24 in, (610 mm) OC.

<u>Through-Penetrant</u> - One metallic pipe, conduit or tubing installed either concentrically or entrically within the firestop system. The annular space between pipe, conduit or tubing and iphery of opening shall be min of 0 in / (0 mm). (point contact) to max 2 in. (51 mm) Pipe, duit or tubing to be rigidly supported on both sides of wall assembly. The following types sizes of metallic pipes, conduits or tubing may be used: 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square bard type, thickness, number of layers, fastener type and fied in the individual U300 or U400 Series Design in the UL of opening is 26 in. (660 mm).

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B. <u>Iron Pipe</u> - Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soll pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure Steel Pipe - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe. dlam (or smaller) steel conduit or nom 4 in (102 mm) dlam (or c tubing

<u>i</u> C. <u>Conduit</u> – Nom 6 in. (152 mm) smaller) steel electrical metallic Through Penetrating Product\* – Flexible Metal Piping The following types of steel metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly. Copper Pipe - Nom 6 in. (152 Tubing Nom 6 in. (152 mm) dlam (or smaller) Type L (or heavier) copper tubing
 Nom 6 in. (152 mm) dlam (or smaller) Regular (or heavier) copper pipe.
 rating Product\* - Flexible Metal Piping The following types of steel
 sing may be used:

2. Nom 1 in. (25 piping may or mo GASTITE, DIV OF TITEFLEX smaller) steel flexible metal gas piping. Plastic covering on emoved on both sides of floor or wall assembly.

WARD MFG INC 3. Nom 1 in. (25 mm) diam (or piping may or may not be ru smaller) steel flexible metal gas piping. Plastic covering on emoved on both sides of floor or wall assembly.

Caulk or Sealant - Min 5/8., 1-1/4,1-7/8 and 2-1/2 in. (16, llk for 1, 2, 3 and 4 hr rated assemblies, respectively, th surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk interface at point contact location on both sides of wall. p system is dependent upon the hourly fire rating of the , as shown in the following table. The hourly T Rating of the the type or size of the pipe or conduit and the hourly fire it is installed, as tabulated below:

Rating
Hr
0+, 1 or 2
3 or 4
0

+When copper

T Rating is 0 h.

3000 WT.

FIRE OR FRAMED WALL ONLY 2,3, OR 4 HOUR PENETRATION IRESTOP DETAIL



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PLUMBING DETAILS

Project No. 0882  $\bigcirc$ 







